

Directory of Annual Agricultural Research Programme of NARS Institutes

2015-16



Bangladesh Agricultural Research Council



National Agricultural Research System (NARS)

The National Agricultural Research System (NARS) is composed of BARC and 12 Agricultural Research Institutes (ARIs).

Bangladesh Agricultural Research Council (BARC)

Being the apex body of NARS, BARC has the responsibility to strengthen national agricultural research capability through research planning, coordination, integration and resource allocation. Establish national research priorities, monitor and review the research program of the institutes, contribute to govt. policy formulation, coordinate with donors and share resources with NARS institutes to conduct research in priority areas are some of the mandate of BARC.

Bangladesh Agricultural Research Institute (BARI)

Conduct research to ensure increased and stable production of all crops (except rice, jute, sugarcane and tea) through scientific management of land, water, fertilizers, insect and diseases; develop varieties of crops with resistances to biotic and abiotic stresses; improve farming systems to optimize production; develop tools and machinery to improve labor productivity; train scientists, extension functionaries, farmers, NGO workers, etc.; collaborate with private sector; publish newsletters, bulletins, and journals; test packages of new technologies.

Bangladesh Rice Research Institute (BRRI)

Conduct research on all aspects of rice to develop high yielding varieties for different ecosystems, develop component technologies for improving productivity of rice-based cropping systems, and transfer rice production technologies through training, workshop, seminar, and publication. Diffusion of technology to farmers through extension agencies.

Bangladesh Jute Research Institute (BJRI)

Conduct Agricultural and Technological research on jute and allied fibers. Agricultural Research: develop short duration high yielding varieties of both white and tossa jute varieties with improved fibers; short duration varieties of kenaf and mesta; agronomic analyses of jute production, prices and markets. Technological Research: identify fiber properties to produce quality products; develop processes and equipment for manufacturing new jute products and improving the quality of conventional jute products; provide technical services to manufacturers with emphasis on establishing new jute industries.

Bangladesh Institute of Nuclear Agriculture (BINA)

To adapt advanced research techniques for the development of a stable and productive agriculture by evolving new crop varieties, technologies to improve management of crops, land and water, as well crop quality, and pest management practices.

Bangladesh Sugarcrop Research Institute (BSRI)

Develop high yielding, high sugar content cane varieties with low fiber contents which are disease and insect resistant for refined sugar and "gur" production; develop early, medium and late maturing varieties to accommodate intensive cropping sequences of major agro-ecological zones; develop improved cultural practices including intercropping and relay cropping patterns; develop varieties and practices to exploit the potential of minor sugar crops.

Soil Resources Development Institute (SRDI)

Provide soil management advisory services to farmers; assess potentials of land resources through soil survey; assist government and other agencies with planning for agriculture, a forestation, soil conservation, land reclamation, settlements, irrigation, drainage, and flood protection by providing basic soil data, and information and technical support.

Bangladesh Fisheries Research Institute (BFRI)

Conduct and coordinate research on freshwater capture and pond fisheries, brackish water fisheries, and marine fisheries; and assist with development of efficient and economic but sustainable methods for fish production, management, processing and marketing.

Bangladesh Livestock Research Institute (BLRI)

Conduct research to solve problems that restrain the growth and development of livestock production at the farm level, and improve the livestock component of farming systems.

Bangladesh Forest Research Institute (BFRI)

Develop management practices to increase productivities of national forests and village groves and to convert wastelands and marginal lands to forestry and agroforestry uses; develop technologies for rational utilization of forest products; generate technologies to conserve or restore environment balances through increased stocking densities of both rural and urban forests; transfer technology through extension services and other agencies to end users.

Bangladesh Tea Research Institute (BTRI)

Mandated to conduct research for increased yields and profits by developing improved production technologies and high yielding, high quality tea clones.

Bangladesh Sericulture Research and Training Institute (BSRTI)

Develop disease, drought and water logging resistant high yielding and nutritionally rich mulberry varieties for rearing of silkworms. Develop appropriate technology for quality silkworm egg and silk production through low cost innovative technologies for overall improvement of socio-economic conditions of rural poor and women. Impart training to the extension staff to systematize silk production processes.

Cotton Development Board (CDB)

Conduct research on different aspects of cotton production; develop hybrid and short duration high yielding cotton varieties with desirable fiber characteristics, generation of agronomic management technologies, improving soil fertility by integrated management of organic and inorganic fertilizers, identification of bio-pesticide in controlling cotton insect pest and cotton disease management. Research on stress management to expand cotton cultivation in the hill, char, saline and drought areas.

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Foreword



In the context of planning and undertaking of new research it is indeed important to document research activities and their output. Documentation of research is important as an element of knowledge management and especially, part of the culture by the scientific community. In addition, continuity of a promising activity and avoidance in repetition of a research work and thus economy in resource use are worth mentioning.

Keeping all these in mind, the Bangladesh Agricultural Research Council has taken this initiative, to gather and document the annual agricultural research programmes of the 12 National Agricultural Research System (NARS) institutes of Bangladesh. It contains, the research programmes by discipline under different program/projects planned for implementation by the NARS institutes during the fiscal year 2015-16. Pertinent to mention that, the annual research programmes are to be drawn in alignment with the 5-years Master Plan of the organizations; which originates from the set agricultural research priorities by the year 2030 and beyond.

I wish and expect, this document will help the research planners and the scientists to take note of the works planned/done while formulating new research undertaking. Further, availability of all activities in a single document may prompt collaborative research among the NARS institutions in areas of commonality as well.

My highest appreciation and gratitude to the NARS institutes for their support and contribution, without which this publication would not be possible. Particular thanks to Mr. Md. Abeer Hossain Chowdhury, Director (Computer and GIS) and Principal Investigator, Agricultural Technology Information Network (ATIN) project and his colleagues for this initiative and effort for successful completion of the valuable task. The assistance in compilation and editing provided by Dr. M.A. Quayyum is thankfully acknowledged.

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Dr. Abul Kalam Azad
Executive Chairman, BARC

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BANGLADESH AGRICULTURAL RESEARCH INSTITUTE

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WHEAT RESEARCH CENTRE

Sl No.	Research Title	Objective(s)	Location
Varietal Improvement			
1	Hybridization	To develop high yielding biotic and abiotic stress tolerant wheat varieties for different growing environments	Dinajpur, Gazipur, Jessore, Jalampur, Rajshahi
2	Confirmation of single and top crosses	To develop high yielding biotic and abiotic stress tolerant wheat varieties for different growing environments	Dinajpur, Gazipur, Jessore, Jalampur, Rajshahi
3	Selection in F ₂ to F ₆ generations	To develop high yielding biotic and abiotic stress tolerant wheat varieties for different growing environments	Dinajpur, Gazipur, Jessore, Jalampur, Rajshahi
4	Germplasm maintenance	To develop high yielding biotic and abiotic stress tolerant wheat varieties for different growing environments	Dinajpur
5	Estimation of quality parameters in advanced wheat genotypes	To develop high yielding biotic and abiotic stress tolerant wheat varieties for different growing environments	Gazipur
6	Bangladesh wheat screening nursery, Set I (BWSN-I)	To develop high yielding biotic and abiotic stress tolerant wheat varieties for different growing environments	Dinajpur, Gazipur, Jessore
7	Bangladesh wheat screening nursery, Set II (BWSN-II)	To develop high yielding biotic and abiotic stress tolerant wheat varieties for different growing environments	Dinajpur, Jalampur, Rajshahi
8	Preliminary yield trial (PYT)	To develop high yielding biotic and abiotic stress tolerant wheat varieties for different growing environments	Dinajpur, Gazipur, Jessore
9	Advanced yield trial (AYT)	To develop high yielding biotic and abiotic stress tolerant wheat varieties for different growing environments	Dinajpur, Gazipur, Jessore, Jalampur, Rajshahi
10	Candidate variety demonstration (CVD)	To develop high yielding biotic and abiotic stress tolerant wheat varieties for different growing environments	Dinajpur, Gazipur
11	On-station demonstration (OSD)	To develop high yielding biotic and abiotic stress tolerant wheat varieties for different growing environments	Dinajpur, Gazipur, Jessore, Jalampur, Rajshahi, Rahmatpur, Ishurdi

SI No.	Research Title	Objective(s)	Location
12	Distinctness, uniformity and stability (DUS) Test	To develop high yielding biotic and abiotic stress tolerant wheat varieties for different growing environments	Dinajpur, Gazipur, SCA, Gazipur
13	Adaptive trial with advanced wheat lines at MLT sites	To develop high yielding biotic and abiotic stress tolerant wheat varieties for different growing environments	Dinajpur, Jessore, Jalampur, Rajshahi, Comilla, Tangail
Development of Heat Tolerant Wheat Genotypes			
14	3 rd Early heat tolerance wheat screening nursery (2 nd EHTWSN)	To develop heat tolerant short statured wheat genotypes under heat stress environments	Dinajpur, Gazipur, Rajshahi
15	3 rd Early maturing wheat screening nursery (2 nd EMWSN)	To develop heat tolerant short statured wheat genotypes under heat stress environments	Dinajpur, Gazipur, Jessore, Barisal
16	Genome-wide based association mapping of heat tolerance in wheat (GWAM-HT)	To develop heat tolerant short statured wheat genotypes under heat stress environments	Dinajpur, Gazipur, Jessore
Development of Drought Tolerant Wheat Genotypes			
17	3 rd Drought tolerant yield trial	To identify the appropriate germplasm tolerant to drought stress	Rajshahi
18	Wheat variety selection for drought prone area	To identify the appropriate germplasm tolerant to drought stress	Rajshahi
Molecular and Double Haploid Breeding			
19	Molecular characterization of BARI released wheat varieties through SSR marker	To develop immediate homozygosity of segregated lines and reduce breeding time	Gazipur
Collaborative Studies with International Organizations			
20	36 th ESWYT (1 set)	To receive different improved wheat germplasm through collaboration with international organization	Dinajpur
21	48 th IBWSN (1 set)	To receive different improved wheat germplasm through collaboration with international organization	Dinajpur
22	14 th HTWYT (3 sets)	To receive different improved wheat germplasm through collaboration with international organization	Dinajpur, Gazipur, Rajshahi
23	10 th EBWYT (1 set)	To receive different improved wheat germplasm through collaboration with international organization	Dinajpur
24	7 th CSISA-SB (3 sets)	To receive different improved wheat germplasm through collaboration with international organization	Dinajpur, Jalampu,

SI No.	Research Title	Objective(s)	Location
25	23 rd SAWYT (1 set)	To receive different improved wheat germplasm through collaboration with international organization	Rajshahi
26	33 rd SAWSN (1 set)	To receive different improved wheat germplasm through collaboration with international organization	Rajshahi
27	4 th WYCYT (3 sets)	To receive different improved wheat germplasm through collaboration with international organization	Gazipur, Dinajpur, Rajshahi
28	5 th SATYN (3 sets)	To receive different improved wheat germplasm through collaboration with international organization	Dinajpur, Gazipur, Rajshahi
29	10 th HTWSN (3 sets)	To receive different improved wheat germplasm through collaboration with international organization	Dinajpur, Gazipur, Rajshahi
30	6 th HPYT (2 sets)	To receive different improved wheat germplasm through collaboration with international organization	Dinajpur, Gazipur
31	10 th STEMRRSN (3 sets)	To receive different improved wheat germplasm through collaboration with international organization	Dinajpur, Jessore, Jamalpur
32	SABWGPYT (10 set)	To receive different improved wheat germplasm through collaboration with international organization	Jamalpur
33	47 th IDSN (1 set)	To receive different improved wheat germplasm through collaboration with international organization	Dinajpur
Participatory Variety Selection (PVS)			
34	PVS: Mother and baby trials and informal seed dissemination	To select farmers preferred wheat varieties and advanced lines under farmer's	Dinajpur, Jessore, Jalampur, Rajshahi, Tangail
Development of Durum and Triticale Variety			
35	Durum yield trial (DYT)	To select promising durum and triticale lines for higher yield	Dinajpur, Ishurdi,
36	Adaptive trial with advance durum lines at MLT sites	To select promising durum and triticale lines for higher yield	Dinajpur, Ishurdi, Jessore, Faridpur
37	Triticale yield trial (TYT)	To select promising durum and triticale lines for higher yield	Dinajpur
Variety Maintenance and Breeder Seed Production			
38	Maintenance of first and second year lines of recommended wheat varieties	<ul style="list-style-type: none"> To maintain purity of nucleus seeds of newly released varieties. To produce breeder seed for BADC and other organization 	Dinajpur
39	Breeder seed production of recommended wheat varieties	<ul style="list-style-type: none"> To maintain purity of nucleus seeds of newly released varieties. 	Dinajpur, Rajshahi

SI No.	Research Title	Objective(s)	Location
		<ul style="list-style-type: none"> To produce breeder seed for BADC and other organization 	
40	Multiplication of pre-released wheat varieties	<ul style="list-style-type: none"> To maintain purity of nucleus seeds of newly released varieties. To produce breeder seed for BADC and other organization 	Dinajpur, Gazipur
41	Seed increase of recommended varieties and the lines included in the nurseries and trials of Wheat, Triticale and Durum	<ul style="list-style-type: none"> To maintain purity of nucleus seeds of newly released varieties. To produce breeder seed for BADC and other organization 	Dinajpur, Rajshahi, Ishurdi, Jessore, Jalampur
Bio-fortification in Wheat			
42	Zinc-enrich wheat yield trial	To evaluate and identify the potential of developing bio-fortified wheat lines and identify promising genotypes	Dinajpur, Gazipur, Jalampur
Development of Salinity Tolerant Variety			
43	Screening of wheat genotypes against salinity under laboratory condition	To screen wheat genotypes against salinity under laboratory condition and select saline tolerant genotypes under field condition of coastal region of Bangladesh	Gazipur
44	Wheat variety/line screening against salinity under field condition	To screen wheat genotypes against salinity under laboratory condition and select saline tolerant genotypes under field condition of coastal region of Bangladesh	Potuakhali, Satkhira
Crop and Soil management			
45	Long-term effect of zero tillage on soil properties and productivity of wheat-mungbean-rice cropping pattern	Aim to use of agricultural resources through the integrated management of available soil, water and biological resources, combined with limited external inputs	Dinajpur
46	Long-term effect of different tillage options and residue management for sustainable crop production in wheat-mungbean-rice cropping pattern	Aim to use of agricultural resources through the integrated management of available soil	Rajshahi
47	Development of fertilizer management to boost up wheat yield under surface seeding	Aim to use of agricultural resources through the integrated management of available soil	Jessore
48	Long-term bed planting trial for improving crops and soils productivity in rice-wheat-mungbean cropping pattern	Aim to use of agricultural resources through the integrated management of available soil	Rajshahi
49	Effect of bed planting and residue management on productivity of wheat-maize-rice cropping pattern	Aim to use of agricultural resources through the integrated management of available soil	Rajshahi

SI No.	Research Title	Objective(s)	Location
50	Intercropping mustard with wheat in bed planting under rice-wheat system	Aim to use of agricultural resources through the integrated management of available soil	Jessore
51	Evaluation of new wheat genotypes under different tillage methods using participatory technology selection approach	Aim to use of agricultural resources through the integrated management of available soil	Dinajpur
Rice- Wheat System			
52	Intercropping of wheat + potato, maize + mungbean in wheat-maize-rice cropping pattern through mechanized system	To find out the pattern which are suitable for rice-wheat system	Gazipur
53	Relay cropping of wheat with T. aman under rice wheat system	To find out the pattern which are suitable for rice-wheat system	Jessore
Physiological Studies			
54	Improvement of drought tolerance of wheat by increasing level of potassium	For improving stress tolerance as well as yield potential wheat varieties	Dinajpur
55	Development of yield model of recently released wheat varieties under late sown heat stress condition	For improving stress tolerance as well as yield potential wheat varieties	Rajshahi
56	Climate change impact assessment of wheat: calibration and validation by APSIM model	For improving stress tolerance as well as yield potential wheat varieties	Dinajpur
57	Growth and yield of recently released wheat varieties/ genotypes under raised bed system	For improving stress tolerance as well as yield potential wheat varieties	Rajshahi
Seed Quality Studies			
58	Study on wheat seed quality at farmers' level	To know the quality status of wheat seed preserved by farmers	Rajshahi, Dinajpur, Rangpur, Manikgonj, Comilla, Barishal, Bhola, Faridpur, Rajshahi, Gopalganj
Regional programme (Rice-wheat system)			
59	On-farm evaluation of wheat varieties under limited irrigation in AEZ 22	For improving stress tolerance as well as yield potential wheat varieties	Jamalpur

SI No.	Research Title	Objective(s)	Location
60	Validation of wheat based cropping patterns in Jamalpur region	For improving stress tolerance as well as yield potential wheat varieties	Jamalpur
Physiological Studies			
61	Screening of wheat genotypes against drought stress (Rainfed condition)	For improving stress tolerance as well as yield potential wheat varieties	Gazipur, Dinajpur, Rajshahi, Jalampur, Rajshahi
Soil Management			
62	Direct and residual effects of applied organic and inorganic fertilizers on yield and soil properties in a wheat-rice cropping pattern	Sustaining soil fertility and productivity in wheat based cropping pattern	Dinajpur
63	Effect of crop residues on soil properties and crop yield in wheat-rice cropping pattern	Sustaining soil fertility and productivity in wheat based cropping pattern	Dinajpur
64	Effect of bio-slurry in wheat-mungbean-T. aman cropping pattern	Find out the optimum rate of bio-slurry for improving soil fertility	Dinajpur
65	Effect of different doses of vermicompost in combination with chemical fertilizers in a potato-wheat-mungbean-T-aman cropping pattern	Find out the optimum doses of vermicompost for improving soil fertility and productivity	Dinajpur
66	Integrated soil and nutrient management to improve the productivity of Wheat – maize- rice cropping system	Sustaining soil fertility and productivity in wheat based cropping pattern	Gazipur
67	Effect of conservation agricultural practices on productivity in wheat-maize-rice cropping system	Evaluating the performance of component crops and their profitability under conservation and conventional practices	Gazipur
68	Evaluation of wheat genotypes through nutrient addition trial	Study the crop response to individual fertilizers elements	Dinajpur, Gazipur, Rajshahi,
69	Water requirement of wheat under different tillage options	Increase water use efficiency under different tillage options	Dinajpur (Rajbari), Debiganj
70	Uptake and efficiency of different levels of nutrient management in wheat-maize- rice cropping pattern	Sustaining soil fertility and productivity in wheat based cropping pattern	Dinajpur
71	Study the yield potentials of promising wheat genotypes maximizing fertilizer application	To investigate the varietal/genotypic potential in producing maximum yield under different soil and environmental conditions	Gazipur, Dinajpur, Jalampur, Rajshahi,

SI No.	Research Title	Objective(s)	Location
Disease Management			
72	Evaluation of wheat germplasm against Bipolaris leaf blight under field condition	Disease resistant/tolerant wheat lines will be identified	Dinajpur, Jamalpur
73	Evaluation of wheat genotypes for resistance to Bipolaris leaf blight under inoculated condition	Disease resistant/tolerant wheat lines will be identified	Dinajpur
74	Evaluation of wheat germplasm against leaf rust under field condition	Disease resistant/tolerant wheat lines will be identified	Dinajpur
75	Evaluation of wheat genotypes for resistance to leaf rust under inoculated condition	Disease resistant/tolerant wheat lines will be identified	Dinajpur
76	Assessment of yield losses due to leaf rust at different growth stages of wheat	To estimate losses in yield due to leaf rust at different growth stages of wheat	Dinajpur
77	Efficacy of fungicides in controlling Bipolaris leaf blight of wheat	Effective fungicides in controlling Bipolaris leaf blight and leaf rust will be found out	Dinajpur
78	Efficacy of fungicides in controlling leaf rust of wheat	Efficacy of fungicides in controlling Bipolaris leaf blight of wheat	Dinajpur
79	Climate change adaptation of wheat genotypes for tolerance to terminal heat stress and Bipolaris leaf blight	Efficacy of fungicides in controlling Bipolaris leaf blight of wheat	Dinajpur
80	Monitoring and evaluation in international wheat disease nurseries	The existing disease situation of wheat will be understood and new sources of resistance will be identified	Dinajpur, Gazipur, Jalampur, Rajshahi,
81	Surveillance of wheat rusts in Bangladesh	Severity of different rust diseases of wheat will be documented	Dinajpur, Gazipur, Jalampur, Jessore, Rajshahi
Agricultural Engineering			
82	Effect of fertilizer placement in different depth for different tillage options on wheat yield	Determine the effect of depth of fertilizer placement under different tillage options	Dinajpur, Rajshahi
83	Adoption of two wheel tractor operated seeder in the rice-wheat cropping system	To demonstrate the seeder for wheat, maize, pulses, sesame and rice establishment	Dinajpur, Rajshahi
84	Adoption of two wheel tractor operated bed planter for up land crops	Comparing the economic performance of the planter with conventional method	Dinajpur, Gazipur, Rajshahi, Manikgonj, Tangail, Bhola

SI No.	Research Title	Objective(s)	Location
85	On farm validation of two wheel tractor operated zero tillage planter for up land crops	To evaluate the performance of zero tillage planter for wheat, maize, and pulses with utilization of residual soil moisture	Dinajpur, Gazipur, Rajshahi, Manikgonj, Tangail, Bhola
86	Development of a low cost battery operated rotary type weeder for up land crop	To test and evaluate the performance of weeder in dry land	Dinajpur, Gazipur
Technology Validation and Transfer			
Demonstration			
87	Variety demonstration	Evaluating new varieties in farmers' field	Dinajpur, Rangpur, Bogra, Rajshahi, Jessore, Mymensingh, Dhaka, Barisal
88	Variety demonstration of dual purpose triticale	Evaluating new varieties in farmers' field	Dinajpur, Rangpur, Bogra
89	Yield Maximization Demonstration	Evaluating new varieties in farmers' field	Dinajpur, Rajshahi, Jessore, Jalampur, Tangail, Barishal, Faridpur, Comilla
90	Up-scaling of new wheat varieties	Evaluating new varieties in farmers' field	Rangpur, Nilphamari, Kurigram, Lalmonirhat
91	Up-scaling of power tiller operated seeder (PTOS) and bed planter	Increase cropping intensity, through the use of developed power tiller operated seeder and bed planter	Kurigram, Lalmonirhat
Training, Workshop and Field days			
92	Training to demonstration and PVS farmers and related personnel	Introduce new wheat varieties with farmers through participatory variety selection	Dinajpur, Rajshahi, Jalampur, Jessore, Gazipur
93	Training for trainers for BARI, DAE, BADC and NGO personnel on wheat production and seed preservation	To teach production technology of wheat varieties to the target farmers	Dinajpur
94	Field days and monitoring of on-farm and on-station research activities	Introduce wheat varieties in farmers' field	Dinajpur, Rangpur, Bogra, Rajshahi, Jessore, Comilla, Dhaka, and Barisal

SI No.	Research Title	Objective(s)	Location
Agricultural Economics			
95	Estimates of changes in agricultural returns due to cropping pattern changes	To estimate the changes in the value of agricultural output resulting from changes in cropping patterns	Rajshahi, Dinajpur

TUBER CROP RESEARCH CENTRE, GAZIPUR

96	Hybridization in Potato (Set-I, II, III, IV, V and VI)	<ul style="list-style-type: none"> To create variants for subsequent variety selection To improve the genetic base of the parent population 	Gazipur, Debigonj
97	Production of Seedling Tubers of the Hybrid Populations (F ₁ C ₀)	Production of seedling tubers for evaluation and variety selection	Debigonj, Gazipur
98	Field Evaluation of Seedling Tubers of Clonal Hybrid (F ₁ C ₁)	Selection of superior clone(s)	Debigonj
99	Preliminary Observation Trial with Clonal Hybrids (F ₁ C ₂)	To select superior clone(s) for subsequent program of variety development	Debigonj
100	Secondary Observation Trial with Clonal Hybrids (F ₁ C ₃)	To select superior genotype (s) for subsequent program of variety development	Debigonj
101	Seed Multiplication with Clonal Hybrids (F ₁ C ₄)	To increase seed for fulfillment the requirement of research	Debigonj
102	Preliminary Yield Trial with Clonal Hybrids (F ₁ C ₅)	To select the superior genotype (s) for secondary yield trial of variety development process	Debigonj, Gazipur
103	Secondary Yield Trial with Clonal Hybrids (F ₁ C ₆)	To select superior genotypes for advanced yield trial in multiple location	Debigonj, Jamalpur and Gazipur
104	Advanced Yield Trial with Clonal Hybrids (F ₁ C ₇)	To select stable clones and finalized the clone(s) for RYT	Gazipur, Debigonj, Jamalpur, Bogra, Munshigonj and Jessore
105	Participatory Variety Selection of Advanced Clonal Hybrids (F ₁ C ₇)	To select suitable clone(s) in collaboration with farmers and other stakeholders for releasing varieties	Debigonj, Munshigonj, Jamalpur, Bogra, Gazipur, Jessore
106	Preliminary Yield Trial of Exotic Potato Varieties for Table, Export and Processing Purposes (First Generation)	To observe physio-morphological, processing and export characters and tuber yield	Gazipur, Debigonj, Munshigonj, Bogra, Jamalpur, Jessore, Debigonj
107	Secondary Yield Trial of Exotic Potato Varieties	To select superior exotic variety in contest of Bangladeshi environment	Gazipur, Bogra,

SI No.	Research Title	Objective(s)	Location
	for Table, Export and Processing Purposes (2 nd Generation)		Munshigonj, Jessore, Jamalpur, Debigonj
108	Advanced Yield Trial with Exotic Potato Varieties for Table, Export and Processing Purposes	To select the superior stable varieties in contest of Bangladeshi environment	Gazipur, Debigonj, Munshigonj, Bogra, Jamalpur and Jessore
109	Participatory Variety Selection of Advanced Exotic Potato Varieties for Table, Export and Processing Purposes	To select suitable varieties in collaboration with farmers and other stakeholders for releasing varieties	Debigonj, Munshigonj, Jamalpur, Bogra, Comilla and Jessore
110	Regional Yield Trial with Exotic Potato Varieties for Table, Export and Processing Purposes	Selection of suitable varieties for release	Gazipur, Debigonj, Munshigonj, Bogra, Jamalpur, Jessore
111	Participatory Variety Selection of Exotic Potato Varieties for Table, Export and Processing Purposes	To select suitable varieties in collaboration with farmers and other stakeholders for releasing varieties	Debigonj, Munshigonj, Jamalpur, Bogra, Comilla and Jessore
112	Regional Yield Trial with Exotic Potato Varieties for Table, Export and Processing Purposes	Selection of suitable late blight tolerant varieties for release	Bogra, Jamalpur, Burirhat, Rangpur
113	Participatory Variety Selection for Late Blight Tolerant Exotic Potato Variety	Selection of suitable varieties in collaboration with farmers and other organization	Bogra, Jamalpur and Burirhat, Rangpur
114	Observation Trial with Clonal Hybrids and Exotic Varieties for Early Heat Tolerant	To select the superior genotype(s) for early heat tolerant variety development	Debigonj
115	Selection of Heat Tolerant Potato Variety for Early Planting	<ul style="list-style-type: none"> To select the superior genotype(s) for early variety development To select the parent for crossing program next year 	Debigonj
116	Screening of CIP Potato Clones for Heat Tolerance	<ul style="list-style-type: none"> To observe the effect of heat on cell membrane stability To select suitable clones for late plantation and higher yield potentiality in field condition 	Pot trial (Gazipur), Field trial (Bogra)
117	Participatory Variety Selection through Secondary Yield Trial	To select suitable CIP potato clones for salt tolerance	Noakhali, Satkhira and Patuakhali

SI No.	Research Title	Objective(s)	Location
	(SYT) of CIP Potato Clones for Salt Tolerance		On farm trial: Noakhali, Satkhira and Patuakhali
118	Participatory RYT with Virus Tolerant CIP Potato Clones	To select suitable virus tolerant potato variety (s) for high yield potential and low degeneration rate.	Bogra, Debiganj, Jamalpur, Jessore, Gazipur & Munshigonj On farm trial: 6
119	Participatory Variety Selection Through Regional Yield Trial (RYT) with CIP Promising Clones	To select suitable variety (s) for high yield potential	Bogra, Debiganj, Jamalpur, Jessore, Gazipur & Munshigonj On farm trial: 6
120	Participatory Selection Trials of CIP Processing Quality Potato Clones through Mother & Baby Trial Design in Bangladesh	<ul style="list-style-type: none"> To show the performance of the promising advance lines to the farmers in their own field Provide scope to the farmers to select the varieties/lines suitable for their own social and economic condition 	Jessore, Barisal, Bogra on station and farmers' field
121	Participatory RYT of CIP Potato Clones for Heat Tolerance	To select suitable variety(s) for heat tolerance	Patuakhali, Jessore, Pahartali, Chittagong and on farm trial
122	Participatory RYT of CIP Potato Clones for Salt Tolerance	To select suitable variety (s) for salt tolerance	Patuakhali, Satkhira, Noakhali
123	Morphological Characterization and Photographic Documentation of Advanced CIP Potato Clones	<ul style="list-style-type: none"> To fulfill the DUS test requirement To characterize the advanced CIP clones/breeding materials, To develop photographic monograph with descriptors 	Gazipur, Gazipur, Debiganj, Panchagarh
124	Morphological Characterization of Advanced Breeding Lines and BARI Released Potato Varieties	<ul style="list-style-type: none"> To fulfill the DUS test requirement To characterize the advanced breeding lines and released varieties To develop photographic monograph with descriptors 	Gazipur, Debigonj
125	Screening of Parental Lines for TPS Production Under Extended Photoperiod	To identify the genotypes capable of producing flowers and berries under extended photoperiod	Gazipur, Debigonj
126	Maintenance of Released Potato Varieties, Germplasm, Lines and TPS Parents	To maintain the released potato varieties, germplasm and lines for future breeding programme	Burirhat, Hathazari

SI No.	Research Title	Objective(s)	Location
127	Maintenance and Up Scaling of Indigenous Potato Varieties	To improve the quality as well as maintain the indigenous potato varieties for future breeding programme	Gazipur, Debigonj
128	Hybridization of Sweet Potato using Random Mating Cross	<ul style="list-style-type: none"> To create variability and diversity over the existing genotypes of sweet potato To develop high yielding, dry fleshed and carotene containing sweet potato varieties. 	Gazipur
129	Observational Yield Trial with F ₁ C ₁ Hybrid Clones of Sweet Potato	<ul style="list-style-type: none"> To select high yielding sweet potato clones. To select dry fleshed and carotene containing sweet potato clones. 	Gazipur
130	Morphological Characterization of Newly Collected Sweet Potato Germplasm	<ul style="list-style-type: none"> To haracterize the newly collected sweet potato germplasm To facilitate in duplicates identification 	Gazipur
131	Finger Printing of Sweet Potato Varieties using SSR Markers	To estimate genetic variations at molecular level and analyze the diversity and genetic relationship among the germplasm	Molecular Biology Laboratory, Gazipur
132	Preliminary Yield Trial with F ₁ C ₃ Hybrid Clones of Sweet Potato	<ul style="list-style-type: none"> To select high yielding sweet potato clones To select dry fleshed and carotene containing sweet potato clones. 	Gazipur
133	Secondary Yield Trial with F ₁ C ₄ Hybrid Clones of Sweet Potato	<ul style="list-style-type: none"> To select high yielding sweet potato clones To select dry fleshed and carotene containing sweet potato clones. 	Gazipur
134	Secondary Yield Trial with F ₁ C ₅ Hybrid Clones of Sweet Potato	<ul style="list-style-type: none"> To select high yielding sweet potato clones To select dry fleshed and carotene containing sweet potato clones 	Gazipur
135	Regional Yield Trial with F ₁ C ₆ Hybrid Clones of Sweet Potato	<ul style="list-style-type: none"> To select high yielding sweet potato clones To select dry fleshed and carotene containing sweet potato clones 	Gazipur, Jamalpur, Bogra, Jessore, Pahartali
136	Regional Yield Trial with F ₁ C ₇ Hybrid Clones of Sweet Potato	<ul style="list-style-type: none"> To select high yielding sweet potato clones To select dry fleshed and carotene containing sweet potato clones. 	Gazipur, Jamalpur, Pahartali, Bagra, Jessore
137	Regional Yield Trial with CIP Clones of Sweet Potato	<ul style="list-style-type: none"> To select high yielding sweet potato clones To select dry fleshed and carotene containing sweet potato clones. 	Gazipur, Jamalpur, Pahartali, Bagra, Jessore
138	Participatory Variety Selection Trial with F ₁ C ₇ Hybrid Clones of Sweet Potato	<ul style="list-style-type: none"> Selection of suitable varieties obtained from RYT in collaboration with farmers and other organizations To know the farmers choice and opinion 	Gazipur, Jamalpur, Jessore, Pahartali, Bogra
139	Participatory Variety Selection Trial with CIP Clones of Sweet Potato	<ul style="list-style-type: none"> Selection of suitable varieties obtained from RYT in collaboration with farmers and other organizations To know the farmers choice and opinion 	Gazipur, Jamalpur, Jessore, Pahartali, Bogra

SI No.	Research Title	Objective(s)	Location
140	Preliminary Evaluation of Newly Introduced 46 CIP Sweet Potato Clones for Earliness, Weevil Resistance and Salt Tolerance	To select high yielding early bulking, weevil resistant and salt tolerant sweetpotato clones/variety	Gazipur Jessore
141	Maintenance and Multiplication of Promising CIP Sweetpotato Clones <i>in-vitro</i> and <i>ex-situ</i> Conditions	To maintain genetic purity of CIP clones.	Gazipur
142	Participatory Variety Selection Trial of OFSP Clones	To select high yielding, dry fleshed and carotene containing sweetpotato clones	Jessore, Barisal, Chittagong
143	Screening of Sweetpotato Varieties/CIP Clones for Salt Tolerance	To select high yielding salt tolerant sweetpotato clones/variety	Satkhira, Patuakhali
144	Collection and Maintenance of Aroids	<ul style="list-style-type: none"> To increase the genetic resources of aroids and minor tuber crops To maintain aroids germplasm for future use in breeding program. 	All over Bangladesh
145	Characterization and Duplicate Identification of Newly Collected Germplasm of Taro (Panikachu and Mukhikachu) using Morphological Traits	<ul style="list-style-type: none"> To characterize the newly collected germplasm of upland and low land taro To facilitate in duplicates identification. 	Gazipur
146	Duplicates Identification in Panikachu using Molecular Markers (SSR)	<ul style="list-style-type: none"> To estimate genetic variations at molecular level and analyze the diversity and genetic relationship among the germplasm 	MBL, Gazipur
147	Preliminary Evaluation Trial of Collected Mukhikachu Germplasm	<ul style="list-style-type: none"> To evaluate the newly collected germplasm of upland taro (Mukhikachu) To select high yielding mukhikachu line(s) for utilization in next year as better one 	Gazipur
148	Regional Yield Trial of Promising Panikachu Lines	<ul style="list-style-type: none"> To evaluate the selected germplasm To select high yielding panikachu line(s) for utilization in next year as a better one for release. 	Gazipur, Comilla, Jessore, Jamalpur
149	Regional Yield Trial of MukhiKachu Lines	To select high yielding mukhikachu line(s) for releasing as a variety.	Gazipur, Jamalpur, Jessore, Pahartali, Comilla, Barishal, Burirhat and Bogra
150	Participatory Variety Selection Trial of MukhiKachu Lines	To select high yielding mukhikachu line(s) for release in participation with farmers.	Gazipur, Jamalpur, Jessore, Pahartali, Comilla, Barishal, Burirhat, Bogra

SI No.	Research Title	Objective(s)	Location
151	Collection and Evaluation of Cassava (<i>Manihot Esculentacrantz</i>) Germplasm	<ul style="list-style-type: none"> To identify high yielding and commercially important genotype To enrich the germplasm which can be used in breeding program Various indigenous knowledge about cultivation will be recorded 	Gazipur
152	Evaluation of Yam (<i>Dioscorea</i> spp.) Germplasm on the Basis of Yield	<ul style="list-style-type: none"> To identify high yielding and commercially important genotype To enrich the germplasm which can be used in breeding program 	Gazipur
153	Collection and Evaluation of Jicama (<i>Pachyrhizus erosus</i>) Germplasm	<ul style="list-style-type: none"> To enrich the germplasm which can be used in breeding program Various indigenous knowledge about cultivation will be recorded 	Gazipur
154	Maintenance of Minor Tuber Crops (Cassava, Yam and Jicama) Germplasm	<ul style="list-style-type: none"> Maintaining the collected germplasms of Cassava, Yam and Jicama for future use in breeding program To build up a minor tuber crops germplasm centre 	Gazipur
155	Bulking Behaviour of Promising Potato Varieties and Germplasm	<ul style="list-style-type: none"> To know the bulking behaviour of promising potato varieties/germplasm To identify early varieties/germplasm To find out optimum time of harvesting for maximum production of large tubers required for processing. 	Gazipur, and Debigonj
156	Salinity Tolerance of Some Selected Potato Varieties	To study the most critical stage of potato varieties at different levels of salinity	Gazipur
157	Effect of Spacing and Planting Materials (whole and cut tubers) on the Yield of Export Quality Potato Tubers	<ul style="list-style-type: none"> To select the appropriate spacing for harvesting maximum export quality potato tubers. To know the effect of whole and cut tubers on the yield of export sized potato tubers. 	Debiganj, Panchagarh
158	Effect of Spacing and Fertilizer Dose on the Yield of Export Quality Potato Tubers	To select the appropriate spacing for harvesting maximum export quality potato tubers considering fertilizer dose.	Debiganj, Panchagarh
159	Adjustment of Growing Season Under Changed Climate	To adjust planting and harvesting time under changed agro climate	Munshigong, and Debigonj
160	Effect of Urea Supper Granule (USG) as a Source of Nitrogen on Panikachu (Latiraj)	<ul style="list-style-type: none"> To find out the efficiency of USG and compare the yield performance of Panikachu with prilled urea and To determine the optimum and economic dose of USG for Panikachu 	Gazipur
161	Effect of Age of Sucker on late planting Panikachu	To find out the optimum age of sucker for higher and profitable yield of late planting Panikachu mainly after harvest of Boro rice.	Gazipur

SI No.	Research Title	Objective(s)	Location
162	Bulking Behaviour of advance line of Mukhikachu	<ul style="list-style-type: none"> To know the bulking behaviour of promising mukhi kachu germplasm. To identify early germplasm. 	Gazipur
163	Evaluation of Export Oriented Potato Varieties Under Organic Cultivation System.	To find out the varieties exhibit better yield and quality for export purpose under low input organic agriculture system	Gazipur
164	Performance of Indigenous Potato Varieties under Organic Practices	To identify the superior indigenous potato varieties for organic cultivation.	Burirhat
165	Evaluation of Stolon Producing Taro Genotypes Under Low Input Organic Cultivation System	To select the superior stolon producing taro lines for organic cultivation	Gazipur, and Pahartali
166	Effects of Different Organic Fertilizers on the Yield and Quality of Potato Processed Products	To find out the better organic fertilizers for producing higher yield of tuber and superior quality of chips and French fries	Gazipur
167	Effects of Organic Manure and Inorganic Fertilizer on Storability and Nutritional Quality of Potato	<ul style="list-style-type: none"> To develop a suitable fertilizer package in combination of organic manure and chemical fertilizers To study the quality components and storability of potato tuber under different nutrient management and To study the post-harvest soil properties 	Gazipur, Munshigonj, and Debigonj
168	Integrated Nutrient Management for Storability and Nutritional Quality of Sweet Potato	<ul style="list-style-type: none"> To develop a fertilizer package in combination of organic manure and chemical fertilizers for sustainable sweet potato production. To study the quality components and storability of sweet potato under integrated nutrient management. 	Gazipur, and Bogra
169	Effect of Nutrient Management on the Growth and Yield of Mukhikachu	<ul style="list-style-type: none"> To observe the response of mukhikachu to different nutrients, To update and optimize the fertilizer package for mukhikachu and To maximize yield. 	Gazipur, and Jamalpur
170	Assessment of Heavy Metal Uptake and Translocation in Wild Mukhikachu (<i>Colocasia esculenta</i>) for Phytoremediation of Metal Contaminated Soil	<ul style="list-style-type: none"> To determine heavy metal concentrations in <i>Colocasia esculenta</i> plant parts and To quantify heavy metal concentrations in the growth 	Gazipur
171	Development of Fertilizer Recommendation for Paniikach	<ul style="list-style-type: none"> To update and optimize the fertilizer package for panikachu, To monitor soil health after harvest To estimate uptake of different plant nutrients and make a balance sheet for each of the nutrients. 	Gazipur, Jamalpur, and Bogra

SI No.	Research Title	Objective(s)	Location
172	Effect of Foliar Application of Boron on the Yield and Quality of Potato (<i>Solanum tuberosum</i> L.)	<ul style="list-style-type: none"> To evaluate the response of boron through foliar application To find out the optimum doses of boron through foliar application for maximizing the yield of potato To find out influence of boron through foliar application on the quality of potato. 	Debiganj
173	Effect of Foliar Application of Zinc on the Yield and Quality of Potato (<i>Solanum tuberosum</i> L.)	<ul style="list-style-type: none"> To evaluate the response of Zinc through foliar application To find out the optimum doses of zinc through foliar application for maximizing the yield of potato To find out the influence of zinc through foliar application on the quality of potato. 	Debiganj
174	Determination of Fertilizer Dose for Newly Released Potato Varieties	<ul style="list-style-type: none"> To update and optimize the fertilizer package for newly released potato varieties, To monitor soil health after harvest To estimate uptake of different plant nutrients and make a balance sheet for each of the nutrients. 	Gazipur, Debiganj, and Bogra
175	Integrated Nutrient Management for Newly Released Mukhikachu (<i>Colocasia esculenta</i>)	<ul style="list-style-type: none"> To develop a suitable fertilizer package in combination of organic manure and chemical fertilizers To study the quality component and the post-harvest soil properties To maximize yield 	Gazipur, Bogra, and Jamalpur
176	Effect of Fertilizers on the Growth and Yield of Newly Released Panikachu Variety	<ul style="list-style-type: none"> To observe the response of panikachu to different nutrients To update and optimize the fertilizer of package panikachu matching the soil and agro climatic condition and To maximize yield and quality panikachu 	Gazipur, Jamlpur, and Bogra
177	Effect of Nitrogen on Quality of Potato	<ul style="list-style-type: none"> To find out the optimum dose of nitrogen for newly released potato varieties To observe the influence of nitrogen on the quality of potato 	Debiganj
178	General Survey and Monitoring of Tuber Crops Diseases	<ul style="list-style-type: none"> To assess the abundance and severity of tuber crops diseases To identify the new disease with their causal organisms 	Gazipur, Munshiganj, Chittagong, Khagrachari, Jamalpur, Jessore, Comilla, Bogra, Debigong, BADC and farmers field
179	Screening of Different Released Potato Varieties against Post-Harvest Diseases Under Natural Storage Condition	<ul style="list-style-type: none"> To evaluate the performances of varieties to storage diseases To find out resistant/tolerant varieties against post-harvest disease 	Gazipur

SI No.	Research Title	Objective(s)	Location
180	Screening of Potato Varieties against Soil Borne Diseases (Common Scab, Stem Rot and Stem Canker & Black Scurf)	To study the tolerance level of BARI released potato varieties against soil borne disease (common scab, stem rot and stem canker & black scurf).	Debiganj, and Bogra
181	Efficacy of New Fungicides in Controlling Late Blight of Potato	<ul style="list-style-type: none"> To find out the effective fungicides in controlling the disease To reduce the yield loss 	Bogra, Burirhat and Jamalpur
182	Effect of Different Economic Spray Schedule of Mancozeb in Controlling Late Blight of Potato on Resistant and Susceptible Variety	To determine the spray schedule of Mancozeb in controlling late blight of susceptible and resistant varieties	Burirhat and Bogra
183	Screening of New Fungicides against Leaf Blight of Panikachu and Mukhikachu	<ul style="list-style-type: none"> To select effective fungicides against Phytophthora leaf blight To reduce the yield due to the disease 	Gazipur and Jessore
184	Screening of Potato Varieties and Germplasm against Late Blight Disease	<ul style="list-style-type: none"> To explore the resistant varieties/TPS/germplasm To reduce the yield due to disease 	Rangpur (Burirhat), Jamalpur and Bogra
185	Screening of Different BARI Released Varieties Against Scab Disease of Potato	To find out the resistant/tolerant varieties/lines against scab disease of potato	Comilla (OFRD) and Gazipur
186	Effect of Different Management Practices on the Common Scab Disease of Potato	To determine the effect of different management practice on scab disease of potato	Debiganj and Gazipur
187	Effect of Different Cropping Pattern on the Development of Common Scab of Potato	<ul style="list-style-type: none"> To study the effect of different cropping pattern on the development of common scab disease of potato To find out a suitable cropping pattern for management of common scab 	Debiganj, and Bogra
188	Validation of Integrated Management Practice against Common Scab of Potato	To verify the integrated management practices against potato common scab.	Debiganj, and Bogra
189	Effect of Liming on the Development of Common Scab and Yield of Potatoes	<ul style="list-style-type: none"> To know the effect of liming on the development of common scab and yield of potato To find out suitable timing for effective use of lime for successful potato production 	Debiganj, and Bogra
190	Screening of Potato Varieties/Germplasms against Bacterial Wilt Under Artificial Condition	To explore the resistance sources	Gazipur

SI No.	Research Title	Objective(s)	Location
191	Characterization of <i>Ralstonia solanacearum</i> Causing Bacterial wilt of Potato	<ul style="list-style-type: none"> To find out the present status of bacterial wilt of potato in terms of its incidence and severity in different growing regions in Bangladesh To find out the races or biovars (Virulent or Avirulent) of the pathogen of <i>Ralstonia solanacearum</i> 	Bacterial wilt prone area
192	Evaluation of Potato Varieties/Germplasm for PLRV and PVY Resistance Under Field Pressure	<ul style="list-style-type: none"> To find out the virus disease resistant potato varieties/germplasm To find out varieties/germplasm having slow degeneration rate 	Gazipur
193	Screening of Advanced CIP Potato Clones against Virus Diseases	To identify the resistant or tolerant clones against virus diseases	Gazipur
194	Varialiability of Morphological Symptoms and Serological Detection of Potato Virus Diseases	To determine the serological relationship with morphological different viruses of potato	Gazipur
195	Screening of Sweet Potato Varieties/ Germplasm against Virus Diseases	<ul style="list-style-type: none"> To identify the resistant or tolerant sources of germplasm Characterization of the viruses in order to develop suitable management strategies of those viruses 	Gazipur
196	Survey on the Status of Cyst Nematode of Potato in Bangladesh	To find out the present status of nematode in Bangladesh	Gazipur
197	Monitoring, Documentation and Damage Severity of Insect Pests of Minor Tuber Crops and along with their Natural Enemies.	<ul style="list-style-type: none"> To assess the damage severity of insect pest of minor tuber crops To identify the insect pests and their natural enemies of minor tuber crops 	Gazipur, and Debiganj
198	Effect of Different Management Approach against of Potato Tuber Moth (PTM) in Farmers Field.	<ul style="list-style-type: none"> To find out an effective management approach for potato tuber moth (PTM) To estimate the extent of damage by PTM 	Gazipur, Munshigonj
199	Development of Integrated Management Package's for the Control of Potato Tuber Moth (PTM) in Storage Condition.	<ul style="list-style-type: none"> To find out an effective management approach for potato tuber moth (PTM) To estimate the extent of damage by PTM 	Gazipur, and Munshigonj
200	Efficacy of Different Management Approach against Red Spider Mite of Panikachu	<ul style="list-style-type: none"> To find out the suitable management option against red spider mite Determination of damage severity by red spider mite 	Gazipur
201	Development of Effective Integrated Package for	To integrate the promising treatments identified from the previous experiments for	Gazipur, and Bogra

SI No.	Research Title	Objective(s)	Location
	Management of Sweet Potato Weevil	<ul style="list-style-type: none"> developing an effective integrated management package against sweet potato weevil To evaluate the different combinations of treatments as integrated package in terms of effectiveness and economic analysis for management of sweet potato weevil 	
202	<i>In vitro</i> Maintenance of Potato, Sweet Potato and Aroids Germplasm	<ul style="list-style-type: none"> Aseptic preservation of germplasm and their maintenance To increase genetic resource 	Gazipur
203	Large-scale Multiplication of Disease Free Plantlets of BARI Potato Varieties	<ul style="list-style-type: none"> To develop new stock of virus free potato plantlets To build up a large stock of in vitro potato plantlets for 1st generation minituber production of potato 	Tissue culture Lab, Gazipur, and Debiganj
204	Large-scale Production of Potato Minituber (G ₁)	<ul style="list-style-type: none"> To produce disease free minitubers from disease free plantlets under nethouse condition To use the minituber for the production of Breeder's seed 	Net house (TCRC), Gazipur, and Debiganj
205	Minituber Production of Potato in the Green House	<ul style="list-style-type: none"> Off season multiplication of minituber To increase the amount of nucleus seed 	Gazipur
206	Seed Potato Production at BSPC, Debiganj	<ul style="list-style-type: none"> Ensuring the demand of quality seeds throughout the country Producing breeder seed for BADC 	Debiganj
207	Diversity Analysis of Released Potato Varieties of BARI Through RAPD and SSR Markers	<ul style="list-style-type: none"> Studying polymorphism among the different released varieties; Molecular diversity analysis of released varieties; Phylogenetic tree establishment among the cultivars and DNA finger printing and documentation of released varieties. 	MBL (TCRC), Gazipur
208	Studies on Storage Behaviour of Potato Varieties/Germplasm Under Natural Storage Conditions	<ul style="list-style-type: none"> To assess the keeping quality of tubers, this is one of the major criteria for selection of varieties/germplasms To observe the marketability of the different varieties/ To store Germplasm 	Gazipur
209	Effect of Various Storage Methods on Storage behaviour and Quality of Sweet Potato	<ul style="list-style-type: none"> To find out the appropriate storage method To maintain quality in respect of storage methods 	Gazipur
210	Effect of Temperature and Cleanness on Storage of Sweet Potato	<ul style="list-style-type: none"> To increase shelf life of sweet potato as well as availability after harvest To minimize and avoid weevil infestation To inhabit spurting for fresh produce 	Gazipur

SI No.	Research Title	Objective(s)	Location
211	Effect of Storage on Seed Quality of Cormel (Mukhikachu), <i>Colocasia esculentum</i> L.	<ul style="list-style-type: none"> To find out the suitable storage system To expand the self life of cormel 	Gazipur
212	Evaluation of Potato Varieties and Germplasm/Lines for Processing Qualities	<ul style="list-style-type: none"> To select suitable varieties and germplasm lines for chips French fries and Dried chips To select the optimum colour and texture of the chips and French-fries 	Gazipur
213	Effect of Different Storage Conditions on Potato Chips and French Fries Quality	<ul style="list-style-type: none"> To find out the suitable storage condition for potato chips and French fries To find out the duration of storage for potato chips and French fries 	Gazipur
214	Quality Assessment of Potato Chips and French Fries Produced at Different Stages of Growth and Storage	<ul style="list-style-type: none"> Quality French fry and chips production of different potato varieties and advanced lines Quality assessment of the chips and French fries produced at different growth stages Quality assessment of the chips and French fries produced at different period of storage 	Gazipur
215	Dissemination of Potato Processing Technologies at Home Scale in Major Potato Growing Areas in Bangladesh	<ul style="list-style-type: none"> To be skilled the village women in preparing potato chips and French fries To increase income generation for farmer To avoid sale of potato in harvest time 	Rajshahi, Rangpur, Bogra, Jamalpur, Munshiganj and Comilla (2 in each location)
216	Post-Harvest Behavior, Processing Qualities and Nutritional Status of CIP Promising Potato Clones	<ul style="list-style-type: none"> To assess post-harvest behavior in natural conditions, processing qualities To study dry matter (%), and nutritional status of CIP Promising potato clones 	Gazipur, Debiganj
217	Evaluation and Extension of Power Tiller Operated Potato Planter in the Farmer's Field	<ul style="list-style-type: none"> To demonstrate and evaluate the performance of the potato planter in the farmer's field To compare the cost of planting of the planter with conventional method 	Gazipur; Paba, Debiganj, (Farmers field) Tangail and Rangpur (OFRD)
218	Development of a Low Cost Two Wheel Tractor Operated Potato Harvester	<ul style="list-style-type: none"> To develop a low cost two wheel tractor operated potato harvester To test the potato harvester performance both on station and in the farmers field To compare the cost of harvesting by the harvester with conventional manual harvesting 	Gazipur, Farmers field Paba, Tangail and Pirganj (OFRD) Debiganj (TCRC)
219	Adaptive Trial with Newly Released Potato Varieties	<ul style="list-style-type: none"> To popularize the newly released improved potato varieties. To collect the feedback of the newly released varieties <p>Location: Munshiganj, Bogra, Jessore, Jamalpur, Faridpur, Rajshahi, Rangpur, Thakurgoan, Tangail, Mymensing, Sherpur, Comilla, Chandpur, Patuakhali, Kushtia, Barishal, Satkhira, Bhola, Madaripur, Gopalganj, Pahartoli & RARS, Chittagong and Gazipur. 2-4 trials in each districts</p>	

SI No.	Research Title	Objective(s)	Location
220	Promotion and Dissemination of Newly Released Late Blight Resistant Potato Variety	<ul style="list-style-type: none"> To popularize the newly released improved potato varieties To collect the feedback of the newly released varieties To increase the production as well as income of the growers 	Dinajpur, Rangpur, Bogra, Jamalpur, Rajshahi and Jessore (2-10 trials in each districts)
221	Adaptive Trials with Newly Released Sweet Potato Variety	<ul style="list-style-type: none"> To test the farm level adaptability of newly released Sweet potato variety and get their feedback To popularize the newly released variety at farm level 	Jamalpur, Comilla, Bogra, Rangpur, Panchagar, Patuakhali, Jessore
222	Adaptive Trials with Improved Varieties of LowLand Taro (Panikachu)	<p>To test the adaptability of the improved varieties of Panikachu at farmers' level</p> <p>Location: Gazipur, Comilla, Joypurhat, Rajshahi, Jamalpur, Bogra, Rangpur, Sherpur, Jessore, Jhenidah, Chuadanga and Habigonj</p>	
223	Adaptive Trials with Improved Varieties of Up-land Taro (Mukhikachu)	<p>To test the adaptability of the improved varieties of Mukhikachu at farmers' level</p> <p>Location: Gazipur, Comilla, Joypurhat, Rajshahi, Jamalpur, Bogra, Rangpur, Sherpur, Jessore, Jhenidah, Chuadanga and Habigonj</p>	
224	Production of Quality Seed Potato at Farmers Level Through Seed Plot Technique	<ul style="list-style-type: none"> To improve the quality of farmer's seed potato To increase the over all potato production of the country 	Major potato growing districts (28)
225	Conduction of Field Days	<ul style="list-style-type: none"> Showing the performance of new varieties to the group farmers To demonstrate improve technologies like quality seed production, fertilizer and irrigation management and disease management etc. to the group farmers 	Munshigonj, Patuakhali, Braishal, Jessor, Rangpur, Bogra, Jamalpur, Comilla, Chandpur, Khagrachari, and Faridpur
226	Training of Farmers and Related Personnel	To give idea about the system of conducting demonstrating of seed production through seed plot technique, data recording, crop production and seed preservation technologies	28 districts of demonstration area
227	Training of Scientist, DAE Officers, BADC and NGO Personnel's on Improved Production Technologies of Tuber Crops	Update the knowledge and skill on improve production technologies of tuber crops, acquainted with the new varieties of tuber crops Get feed back about the problem of tuber crops production in Bangladesh	Gazipur
228	National Workshop on Present Status and Future Strategy for Tuber Crops Development	To asses the problems and prospects of Tuber Crops in Bangladesh	Gazipur

SI No.	Research Title	Objective(s)	Location
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HORTICULTURE RESEARCH CENTRE

Vegetable Division			
Varietal Improvement (Solanaceae and Crucifereae Vegetables)			
229	Collection, characterization and evaluation of eggplant germplasm for winter and summer	To evaluate the performance of newly collected eggplant germplasm in relation to yield and yield contributing characters both in winter and summer season	Gazipur, Jamalpur, Narsingdi, Ishwardi, Jessore and Burirhat
230	Performance trial of eggplant lines for winter & summer (Set I : Purple coloured and Set II : Green coloured)	To develop high yielding purple and green coloured OP eggplant varieties tolerant to FSB, bacterial wilt for winter and summer season	Gazipur, Ishwardi and Burirhat
231	Preliminary yield trial of eggplant lines for winter and summer (Set I- Purple coloured and Set II-Green coloured)	To develop high yielding purple and green coloured OP eggplant varieties tolerant to FSB, bacterial wilt for winter and summer season	Gazipur, Ishwardi and Burirhat
232	Advanced yield trial of eggplant lines for winter & summer (Set I : Purple coloured and Set II: Green coloured)	To develop high yielding OP eggplant varieties tolerant to FSB, bacterial wilt and heat tolerant	Gazipur, Ishwardi and Burirhat
233	Regional yield trial of eggplant lines for winter	To develop high yielding OP eggplant varieties tolerant to FSB and bacterial wilt	Gazipur, Jamalpur, Ishwardi, Burirhat, Jessore, Akbarpur and Narsingdi
234	Regional yield trial of multiple disease tolerant AVRDC tomato lines	To study the yield potential and performance of AVRDC tomato lines	Gazipur, Jamalpur, Ishwardi, Burirhat, Hathazari, and Narsingdi
235	Regional yield trial of Ty gene inserted tomato lines for yield and diseases resistance (Medium size fruit)	Assessing the yield potentiality of tomato lines at different agro ecological zones of Bangladesh	Gazipur, Jamalpur, Ishwardi, Burirhat and Hathazari
236	Regional yield trial of Ty gene inserted tomato lines for yield and diseases resistance (cherry type)	Assessing the yield potentiality of tomato lines at different agro ecological zones of Bangladesh	Gazipur, Jamalpur, Ishwardi, Burirhat, Hathazari, Akbarpur and Narsingdi
237	Regional yield trial of selected beta carotene rich tomato lines	Assessing the yield potentiality of beta carotene rich tomato lines at different agro ecological zones of Bangladesh	Gazipur, Jamalpur, Ishwardi, Burirhat, Hathazari, Akbarpur and Thakurgaon

SI No.	Research Title	Objective(s)	Location
238	Regional yield trial of selected semi-determinate tomato lines	Determining yield potentiality and pest and diseases reactions of selected semi-determinate tomato lines at different agro ecological zones of Bangladesh	Gazipur, Jamalpur, Ishwardi, Burirhat, Hathazari and Thakurgaon
239	Regional yield trial of tomato lines for processing	Assessing the yield potentiality of processing type tomato lines at different agro ecological zones of Bangladesh	Gazipur, Jamalpur, Ishwardi, Burirhat, Hathazari and Akbarpur
240	Advanced yield trial of selected capsicum lines in summer	To see the performance of the advanced lines in summer	Gazipur
241	Regional yield trial of capsicum lines	To observe the performance of advanced lines in different location	Gazipur, Jamalpur, Narsingdi and Pahartali
242	Collection and evaluation of summer cauliflower lines	To find out suitable cauliflower lines for summer season	Gazipur
243	Evaluation of selected cauliflower lines	To find out suitable cauliflower lines for early, medium and late winter season	Gazipur
244	Regional yield trial of early cauliflower lines	To observe the yield potentiality of advanced cauliflower lines at early summer in different location of Bangladesh	Gazipur, Jamalpur, Ishwardi, Hathazari, Comilla, Narsingdi and Jessore
245	Advanced yield trial of selected broccoli lines	To find out the suitable OP broccoli lines with seed production potentiality	Gazipur
Varietal Improvement (Cucurbitace Vegetables)			
246	Evaluation of bitter gourd germplasm in summer season	To select superior genotypes of bitter gourd with good yield and quality (variable fruit size, tolerance to common diseases and insects, and low bitterness) for using in future OP or hybrid variety development program	Gazipur
247	Off season evaluation of bitter gourd genotypes	To select superior genotypes of bitter gourd for yield and quality for off season (winter)	Gazipur
248	Secondary yield trial of bitter gourd lines	To select superior genotypes of bitter gourd in respect of higher yield and quality	Gazipur
249	Regional yield trial of advanced bitter gourd lines	To observe adaptability of the selected lines of bitter gourd at different agro-ecological regions for yield and quality	Gazipur, Jamalpur, Ishwardi, Pahartali, Patuakhali, Akbarpur and Jessore

SI No.	Research Title	Objective(s)	Location
250	Advanced yield trial of selected winter bottle gourd lines	To observe the performance of yield potentiality of selected bottle gourd lines for winter season	Gazipur
251	Preliminary yield trial of selected summer bottle gourd lines	To find out superior bottle gourd lines in respect of yield and quality for summer season	Gazipur
252	Regional yield trial of winter bottle gourd line	To evaluate the advanced bottle gourd lines in respect of yield and quality at different locations of the country	Gazipur, Jamalpur, Ishwardi, Hathazari, Rahmatpur, Akbarpur and Jessore
253	Evaluation of snake gourd germplasm	To select superior germplasm of snake gourd for yield and quality	Gazipur
254	Advanced yield trial of snake gourd lines	To select superior genotypes of snake gourd for yield and quality	Gazipur
255	Observation yield trial of ridge gourd germplasm	To evaluate the performance of selected germplasm for getting a new variety of ridge gourd	Gazipur
256	Evaluation of sponge gourd genotypes	To select superior genotypes of sponge gourd for yield and quality	Gazipur
257	Advanced yield trial of sponge gourd lines	To observe the yield performance of sponge gourd lines	Gazipur
258	Collection, characterization and evaluation of Ash gourd germplasm	To evaluate the performance of ash gourd germplasm in respect of yield and quality of yield and yield contributing characters	Gazipur
259	Regional yield trial of Ash gourd lines	To observe the suitability of the selected ash gourd lines at different agro-ecological regions for yield and quality	Gazipur, Jamalpur, Ishwardi, Hathazari, Rahmatpur and Jessore
260	Advanced yield trial of selected melon lines	To evaluate the suitable lines for higher yield and disease resistance	Gazipur
261	Collection and evaluation of cucumber germplasm	To select high yielding genotype of cucumber	Gazipur and Burirhat
262	Regional yield trial of cucumber lines	To see the performance of advanced lines in respect of yield at different locations	Gazipur, Jamalpur, Ishwardi, Akbarpur, Narsingdi and Jessore
263	Regional yield trial of squash lines	To evaluate the performance of squash lines at different locations	Gazipur, Jamalpur, Ishwardi, Pahartali and Narsingdi
264	Evaluation of netted melon germplasm for genetic advancement	To find out germplasm of cantaloupe for high yield and sweetness To develop a suitable cantaloupe variety for commercial cultivation	Gazipur

SI No.	Research Title	Objective(s)	Location
Varietal Improvement (Legumes and Other Vegetables)			
265	Advanced yield trial of selected early hyacinth bean lines	To evaluate the performance of selected early hyacinth bean line in respect of yield, quality and pest reactions	Gazipur
266	Regional yield trial of french bean	To evaluate the selected french bean line in respect of yield and quality at different location	Raikhali, Gazipur, Hathazari, Jamalpur, Ishwardi, Rahmatpur, Akbarpur
267	Evaluation of selected yard long bean lines	To find out superior yard long bean lines in respect of yield and quality	Gazipur
268	Advanced yield trial of selected okra lines/ varieties	To develop high yielding okra varieties with desirable traits	Gazipur
269	Collection and evaluation of garden pea germplasm	Characterization of collected germplasm	Gazipur
270	Regional yield trial of selected spinach lines	To evaluate the performance of selected spinach line	Gazipur, Ishwardi, Jamalpur, Jessore, Rahmatpur, Hathazari and Burirhat
271	Collection, evaluation and conservation of indigenous vegetables	Evaluating the yield potentiality of the collected underutilized vegetables	Gazipur
272	Collection, evaluation and characterization of drumstick germplasm	Collection and evaluation of drumstick	Gazipur
273	Regional yield trial of OP carrot lines	To evaluate the performance of OP tropical carrot lines for good yield and quality in different location	Gazipur, Jamalpur, Ishwardi, Burirhat and Jessore
Hybrid Development of Vegetables			
274	Performance of egg plant hybrids for winter and summer	To develop high yielding eggplant hybrid varieties	Gazipur
275	Preliminary yield trial of eggplant hybrids for winter & summer	To develop high yielding eggplant hybrid varieties	Gazipur
276	Advanced yield trial of eggplant hybrids for winter	To develop high yielding eggplant hybrid varieties	Gazipur
277	Regional yield trial of eggplant hybrids for winter	To develop high yielding eggplant hybrid varieties	Gazipur, Jamalpur, Ishwardi, Burirhat, Jessore, Rahmatpur, Hathazari, Akbarpur

SI No.	Research Title	Objective(s)	Location
278	Evaluation of breeding lines of tomato	To find out superior genotypes of tomato with good yield and quality for using in future OP or hybrid variety development program	Gazipur
279	Preliminary yield trial of winter tomato hybrids	Evaluating the performance of newly developed winter hybrid tomato lines	Gazipur
280	Advanced yield trial of tomato hybrids for yield, disease resistance and shelf life	Assessing the yield potentiality of AVRDC supplied tomato hybrids in Bangladesh condition	Gazipur
281	Advanced variety trial for processing and fresh type tomato inbred lines	Assessing the yield potentiality of AVRDC tomato lines in Bangladesh condition	Gazipur
282	Regional yield trial of summer F ₁ s of tomato	To observe adaptability of the promising F ₁ s of tomato at different agro-ecological regions for yield and quality	Gazipur, Jamalpur, Akbarpur, Ishwardi, Potuakhali, Pahartali and Hathazari
283	Advanced yield trial of capsicum hybrids	To see the Performance of hybrids at different location	Gazipur
284	Combining ability and heterosis study in line x tester crosses of bitter gourd in summer season	To estimate heterosis, GCA and SCA effects	Gazipur
285	Hybridization of bottle gourd	To produce F ₁ bottle gourdseeds of selected inbreds	Gazipur
286	Regional yield trial of pumpkin hybrids	To observe adaptability of the selected hybrids of pumpkin at different agro-ecological regions for yield and quality	Gazipur, Jamalpur, Pahartali, Jessore, Akbarpur, Potuakhali and Ishwardi
287	Development of inbred in watermelon through segregating population	To study the yield potential and overall performance of the selected segregates	Gazipur
288	Regional yield trial of pointed gourd hybrids	To evaluate the hybrids of pointed gourd	Gazipur, Ishwardi, Jessore, Jamalpur and Burirhat
Production Technology of Vegetables			
289	Standardization of time of planting of eggplant at winter and summer	To find out suitable planting date of BARI released eggplant varieties	Gazipur
290	Possibilities of using side shoots as propagation material in tomato production	To minimizing the seed cost of OP/ hybrid Tomato	Gazipur

SI No.	Research Title	Objective(s)	Location
291	Performance of BARI released tomato varieties at northern region during late winter	To find out the suitable variety (ies) for late winter cultivation at northern region.	Burirhat and Thakurgaon
292	Screening of different tomato varieties in saline area of Bangladesh	To find out saline tolerant tomato variety(ies)	Benarpota, Satkhira
293	Effect of plant density and shoot pruning on capsicum production under shadenet structure	To determine the optimum combination of plant population, and shoot and flower pruning	Gazipur
294	Vine pruning technique for higher production of bottle gourd varieties/lines in relation to nutritional benefits	To determine the number of vine retain in main stem	Gazipur
295	Effect of different nutrient on tomato under rooftop gardening	To develop a organic nutrient package for rooftop gardening	Gazipur
296	Year round production of some selected HYVS and hybrid vegetable varieties in southern and hilly regions of Bangladesh	To adapt HYV and hybrid vegetable varieties with package of production practices in winter and summer season for increasing year round production in Bandarban and Patuakhali districts	Bandarban hill and Patuakhali districts
297	Standardization of planting and harvesting time on yield, quality and shelf life of broccoli	To find out suitable planting time of broccoli variety/line	Gazipur
Off Season Vegetable and Protective Culture			
298	Development of an aeroponic system for vegetable production	Introduction of aeroponic as an alternative system of vegetable production	Gazipur
299	Production of strawberry in multi-layer system of hydroponics	To find out the feasibility of growing strawberry in upright multi-layer system of hydroponics	Gazipur
300	Demonstration of hydroponic system at Dhaka and Gazipur city	To study the feasibility of growing vegetable in urban areas of Dhaka and Gazipur City through hydroponic culture	Dhaka and Gazipur
301	Effect of substrate on the growth and yield of ginger cultivation in soilless culture	To find out suitable substrate for growing ginger in soilless culture	Gazipur
302	Yield and quality of netted melon grown in hydroponics with enshishoo and coopers nutrient solution	To compare the influence of two different hydroponic solution on fruit yield and quality of melon	Gazipur

SI No.	Research Title	Objective(s)	Location
303	Performance of strawberry under different organic substrates in soilless culture	To compare the influence of different organic substrates on the fruit yield and quality of strawberry	Gazipur
304	Effect of different level of zinc in nutrient solution on the growth and zinc uptake in leafy vegetables	Standardization of dose of zinc in nutrient solution for growing leafy vegetables in hydroponics	Gazipur
305	Year round production of selected vegetable crops through hydroponic culture	To study feasibility of growing selected vegetable crops year round production through hydroponic culture	Gazipur
306	Effect of different growing media on vertical hydroponic culture	To find out suitable growing media for low cost hydroponic culture	Gazipur
307	Development of micro-garden model for medium - size urban-family through soilless culture	To produce year round vegetables from 10m ² micro garden	Gazipur
308	Evaluation of different mushroom varieties/ lines/species	To collect and evaluate germplasm from different sources and develop new variety(s) of mushroom	Gazipur
Production of Organic and Safe Vegetables			
309	Evaluation of organic tomato variety / genotypes	To find out suitable variety for low input organic practices	Gazipur
310	Development of organic block for organic vegetable production	To develop organic vegetable production system	Gazipur
311	Development of small scale organic model farm	To develop high productive organic model farm for the small scale growers	Gazipur
312	Intercropping of leafy vegetables with bottle gourd at organic blocks	To find suitable leafy vegetable for intercropping under organic practices	Gazipur
313	Intercropping of indian spinach, okra and mint under at different organic fertilizers	To find suitable intercropping under organic practices at summer season	Gazipur
Seed Production Technology			
314	Target of breeder seed production at different stations	Production of breeder seeds for producing foundation and certified seed	Gazipur and all RARS, HARS & ARS
OFRD Trial (Vegetables)			
315	On-farm trial of BARI developed summer eggplant variety	To evaluate the performance of the variety in farmers' field	Bogra, Narasindi, Pabna, Rangpur, Shatkhira, Daulatpur, Khulna, Noakhali and Mymensingh

SI No.	Research Title	Objective(s)	Location
316	On-farm trial of BARI developed winter tomato variety	To evaluate the performance of the variety under farmers' field	Rangpur, Rajshahi, Comilla, Patuakhali, Daulatpur, Khulna, Pabna, Sylhet, Noakhali and Bandarban
317	On-farm trial of BARI developed winter hybrid tomato	To evaluate the performance of winter variety in farmers' field	Comilla, Mymensingh, Narshingdi, Shyampur, Daulatpur, Khulna, Rangpur, Pabna, Bandarban, Patuakhali
318	On-farm trial of BARI developed summer hybrid tomato	To evaluate the performance of summer hybrid variety in farmers' field	Comilla, Shyampur, Rangpur, Pabna, Daulatpur, Khulna, Bandarban, Patuakhali and Noakhali
319	On-farm trial of BARI developed bottle gourd variety for summer	To evaluate the performance of the variety in farmer's field	Rangpur, Norshindi, Patuakhali, Jessore, Daulatpur, Khulna, Patuakhali and Noakhali
320	On-farm trial of BARI developed ridge gourd variety	To evaluate the performance of ridge gourd variety in farmersfield	Comilla, Mymensingh, Patuakhali, Daulatpur, Khulna, Rangpur and Noakhali
321	On -farm trial of BARI developed country bean variety	To evaluate the performance of BARI Sheem 6 at different locations	Daulatpur, Khulna, Rangpur, Sylhet, Mymensingh, Bandarban and Noakhali
322	On -farm trial of BARI developed summer hyacinth bean variety	To evaluate the performance of BARI Sheem 7 at different locations during summer	Comilla, Pabna, Patuakhali, Rangpur, Sylhet, Mymensingh, Bandarban

SI No.	Research Title	Objective(s)	Location
323	On-farm trial of BARI developed broccoli variety	To evaluate the performance of broccoli variety in farmersfield	Comilla, Mymensingh, Patuakhali, Bandarban, Pabna, Rangpur and Noakhali
324	On-farm trial of BARI developed hybrid pumpkin variety	To evaluate the performance of hybrid pumpkin variety in farmersfield	Daulatpur, Khulna, Comilla, Mymensingh, Patuakhali, and Rangpur
325	On-farm trial of BARI developed spinach variety	To evaluate the performance of spinach variety in farmersfield	Comilla, Mymensingh, Patuakhali, Pabna, Bandarban, Noakhali and Rangpur
326	On-farm trial of BARI developed okra variety	To evaluate the performance of okra variety in farmersfield	Comilla, Mymensingh, Patuakhali, Pabna, Bandarban, Rajshahi and Rangpur
Plant Physiology			
327	Effect of drought on tomato varieties at germination and early seedling growth stages	To identify tomato varieties for drought tolerance at seedling stage	Gazipur
328	Effect of GA ₃ on seed yield, yield attributes of broccoli	To find out the suitable dose of GA ₃ for higher seed yield of broccoli	Gazipur
329	Effect of plant growth regulators on vegetative growth, yield and sex expression of summer bottle gourd	To assess the effects of plant growth regulators to decrease the sex ratio by the increase in pistillate flowers per plant for yield improvement	Gazipur
330	Effect of application frequency of NAA on physio-morphological characters, yield and yield components of brinjal	To find out the suitable application frequency of NAA for high yield in brinjal production.	Gazipur
331	Screening of spinach genotypes against salinity during germination and seedling stage	To find out the genotypes tolerant to salinity at germination and seedling growth stages	Gazipur
332	Screening of sweet gourd genotypes against salinity during germination and seedling stage	To find out the lines/ variety (ies) tolerant to salinity stress at germination and seedling growth stages	Gazipur

SI No.	Research Title	Objective(s)	Location
333	Screening of hybrid tomato genotypes against salinity at germination and early seedling growth stages	To find the suitable hybrid tomato varieties tolerant to salt stress at seed germination and early seedling growth stages	Gazipur
334	Influence of GA ₃ on physio-morphological parameters, yield and quality of tomato genotypes	To find out the appropriate concentration of GA ₃ for higher yield of tomato	Gazipur
335	Effect of NAA and GA ₃ on growth and yield of lettuce	To find out the appropriate concentration of GA ₃ and NAA for better growth and yield of lettuce	Gazipur
336	Effect of GA ₃ and NAA and on growth and yield of cabbage	To find out the appropriate concentration of GA ₃ and NAA for better growth and yield of cabbage	Gazipur
337	Effect of GA ₃ on germination of lettuce seed in field condition	To identify the suitable concentration of GA ₃ and soaking time for seed germination of lettuce seeds	Gazipur
Entomology			
338	Relative susceptibility of BARI released tomato varieties to fruit borer, leaf miner and whitefly	To identify the resistant tomato variety (ies) to fruit borer, leaf miner and whitefly	Gazipur and Thakurgaon
339	Relative susceptibility of country bean varieties to legume pod borer and aphid	To identify the resistant country bean variety (ies) to legume pod borer and aphid	Gazipur, Jessore, Rangpur
Plant Pathology			
340	Screening of chemicals and biocontrol agents against <i>sclerotinia sclerotiorum</i> in country bean <i>in vitro</i>	To find out the suitable control measure of <i>Sclerotinia sclerotium</i> disease	Gazipur
341	Validation and up-scaling of tricho-compost production technology	To improve knowledge and skill of farm family on production and use technology of Tricho-products	Jessore and Bogra
342	Screening of tomato germplasm for resistance to tomato yellow leaf curl virus disease	To find out suitable germplasm resistance to TYLCV of tomato	Gazipur
343	Management practices in controlling tomato yellow leaf curl virus disease	To find out the management practices of tomato yellow leaf curl virus	Gazipur
344	Use of tricho-products for soil borne disease management of vegetable crops at farmer's level	To control / reduce soil borne diseases and to increase yield of vegetable crops by using Tricho-products	Jessore and Bogra
345	Management of white mould disease of country bean by chemicals and biological means	To find out the suitable fungicides or bio-control agents to suppress the pathogen	Gazipur and Bogra

SI No.	Research Title	Objective(s)	Location
346	Screening of brinjal germplasm resistant to bacterial wilt caused by <i>ralstonia solanacearum</i>	To identify brinjal resistant source of bacterial wilt in brinjal	Gazipur
347	Screening of tomato germplasm resistant to bacterial wilt caused by <i>ralstonia solanacearum</i> .	To identify suitable resistant source against bacterial wilt (<i>Ralstonia solanacearum</i>) in tomato	Gazipur
348	Screening of brinjal germplasm resistant to root-knot nematode caused by <i>meloidogyne</i> sp.	To identify brinjal resistant source against root knot nematode in brinjal	Gazipur
349	Screening of tomato germplasm resistant to root-knot nematode caused by <i>meloidogyne</i> sp.	To identify suitable resistant source against root knot nematode in tomato	Gazipur
350	Use of talc base formulation of <i>trichoderma viride</i> for seed and soil borne diseases management of cabbage	To examine the effectiveness of talc based <i>T. harzianum</i> for management of seed and soil borne diseases of cabbage	Gazipur
Soil and Water Management			
351	Dissemination of urea super granule (USG) technology for upland vegetables at different locations of Bangladesh (strengthening Program of urea super granule for vegetables)	To popularize and adoption of the USG technology by the vegetable growers	Sylhet, Jamalpur, Gazipur, Rangpur and Jessore
352	Effect of potassium in increasing the shelf life and quality of tomato through IPNS approach	To find out the effect of K on the shelf life and post-harvest quality of tomato	Gazipur
353	Study of USG and prilled urea in relation to nitrogen supply and its effect on the growth and vine production of bottle gourd	To find out the duration of N supply, its behavior and N use efficiency of plant from USG and PU	Gazipur
354	Effect of USG and b application on the yield and quality of summer tomato	To evaluate the effects of USG and boron application on quality summer tomato production	Gazipur
355	Effect of boron and molybdenum with USG on the yield and quality of cauliflower	To evaluate the efficiency of USG in comparison to prilled urea on cauliflower production	Gazipur
356	Effect of vermicompost and cowdung on the yield of cucumber	To study the efficiency of vermicompost and cowdung along with chemical fertilizer on cucumber production	Gazipur and Jessore

SI No.	Research Title	Objective(s)	Location
357	Development of USG based fertilizer recommendation for bitter gourd	To ascertain the comparative performance of USG and prilled urea in relation to yield and economics	Gazipur
Post Harvest Technology			
358	Efficacy of non-chlorine sanitizer and map in improving brinjal shelf life during evaporative cooling and coolbot storage	To determine the effectiveness of simple evaporative cooler (EC) and low-cost cold storage using coolbot (CB) in prolonging shelf life of and brinjal	Gazipur
359	Evaluation of postharvest quality of tomatoes for selecting long shelf life and processing varieties	The objective of the present study was to evaluate the postharvest traits and shelf life to select suitable long shelf life and good processing tomato lines	Gazipur
360	Non-invasive quality evaluation using differential absorbance on tomato	To evaluate the applicability and reliability of non-invasive DA measurement of tomato maturity and quality characteristics	Gazipur
361	Ripening of tomato using novel YH ethylene generator	To adapt and optimize the use of YHEG for accelerating uniform ripening of tomatoes	Gazipur
362	Handling trials to evaluate the technical and economic feasibility of improved postharvest management system	To determine the suitability and effectiveness of developed postharvest technologies and best practice in improving tomato and brinjal value chains	Rangpur and Gazipur
363	Determination of maturity indices and quality characteristics of tomato and bitter gourd	To find out the proper stage of maturity	Gazipur
364	Shelf life of vegetables as influenced by edible coating	To study the preparation and optimum concentration of coating materials	Gazipur
365	Effect of cling wrapping on extending the shelf life of fresh vegetables	To study the effect of cling wrapping of fresh vegetables compared to other packaging techniques	Gazipur
366	Standardization of blanching time of vegetables using boiling water and microwave techniques	To standardize blanching time of fresh vegetables in boiling water and microwave technique	Gazipur
367	Observation of different combination of ready-to-cook vegetables	To identify the suitable food additive/preservative for ready-to-cook vegetables	Gazipur
Technology Transfer			
368	Training on vegetable technology	Olericulture Division, HRC, BARI has developed numerous improved technologies on vegetable production, seed production, post harvest, IPM including the development of improved varieties. The training program has been designed to train trainers, scientists and farmers	Gazipur

SI No.	Research Title	Objective(s)	Location
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POMOLOGY DIVISION

Varietal Development			
369	Collection and evaluation of jackfruit germplasm	<ul style="list-style-type: none"> To select superior lines for early, mid and late season To identify suitable germplasm for higher yield and quality 	Gazipur, Jamalpur, Hathazari, Burirhat, Raikhali, Pahartali, Khagrachari, Ramgarhand Chapai Nawabganj
370	Collection and evaluation of off-season jackfruit germplasm	<ul style="list-style-type: none"> To findout the superior off-season and year-round variety To identify suitable germplasm for higher yield and quality 	Gazipur, Akbarpur, Hathazari and Ramgarh
371	Identification, collection and evaluation of family size superior jackfruit germplasm	To develop family size variety(s) of superior jackfruit	Gazipur and Pahartali
372	Inter-varietal hybridization of mango (SET-III)	To incorporate desirable characters	Chapai Nawabganj
373	Hybridization in mango through open pollination by insect in casing	To develop hybrids with desirable traits	Chapai Nawabganj
374	Characterization and evaluation of late mango germplasm	To find out the suitable mango germplasm in quest of late variety	Binodpur and Chapai Nawabganj
375	Clonal selection of mango	To select the superior germplasm for commercial cultivation	Podagonj, Rangpur
376	Collection and evaluation of green mango (Kancha mitha) germplasm	<ul style="list-style-type: none"> To find out superior genotypes of green mango (Kancha mitha) germplasm for higher yield, quality and insect-pest resistance To develop suitable green mango (Kancha mitha) variety for commercial cultivation 	Khagrachari, Pahartali, Hathazari, Jessore and Chapai Nawabganj
377	Collection and evaluation of mango genotypes in the hilly area	<ul style="list-style-type: none"> To find out superior mango genotypes To find out early, late, off-season and kancha mitha genotypes of mango 	Raikhali
378	Evaluation of collected mango (Surjapuri) germplasm	<ul style="list-style-type: none"> To find out the superior germplasm of Surjapuri To develop a new mango variety 	Thakurgaon
379	Collection and evaluation of coloured mango germplasm	<ul style="list-style-type: none"> To identify and select the most desirable coloured mango lines To identify suitable genotypes for exploitation in hybridization programme 	Chapai Nawabganj, Jessore and Burirhat
380	Performance of exotic mango germplasm	<ul style="list-style-type: none"> To identify suitable genotypes for commercial cultivation and for exploitation in hybridization programme To identify and select the most desirable mango lines 	Gazipur

SI No.	Research Title	Objective(s)	Location
381	Evaluation of superior mango germplasm	<ul style="list-style-type: none"> To identify promising mango lines To select desirable mango lines for higher yield and qualities 	Gazipur and Pahartali
382	Phenological growth patterns of mango varieties under central region of Bangladesh	To study the phenological growth patterns, flowering and fruiting behavior of mango varieties at central region of Bangladesh	Gazipur
383	Evaluation of off-season mango germplasm	<ul style="list-style-type: none"> To select off-season mango lines for getting fresh fruits in lean period To extend the period of availability of fresh fruits 	Khagrachari and Ishwardi
384	Hybridization in mango (set I and set II)	<ul style="list-style-type: none"> To incorporate desirable characters To develop hybrid variety 	Nawabgonj (Set I) and Gazipur (Set II)
385	Hybridization in kancha mitha mango (Set IV)	<ul style="list-style-type: none"> To lengthen the period of availability of kancha mitha mango To develop off-season kancha mitha mango varieties 	Chapai Nawabganj
386	Hybridization in Mango (Set V)	<ul style="list-style-type: none"> To improve the quality of fruits To extend the availability of the mango To lessen the fibre 	Pahartali
387	Performance of chance seedlings of BARI Aam-4 (hybrid)	To find out the superior germplasm for commercial cultivation	Chapai Nawabganj
388	Collection and evaluation of local and exotic mango germplasm	To evaluate the performance of local and exotic lines of mango at different locations for identification of suitable ones	Jamalpur, Khagrachari, Pahartali, Rahmatpur, Jaintapur and Binodpur
389	Collection and evaluation of poly-embryonic mango germplasm	To identify the suitable lines for higher yield and to extend the availability period	Ramgarh
390	Collection and evaluation of local elite mango germplasm	<ul style="list-style-type: none"> To identify promising mango lines To develop high yielding variety 	Chapai Nawabganj, Burirhat and Binodpur
391	Performance of some popular and released mango varieties under north eastern region of Bangladesh	<ul style="list-style-type: none"> To select suitable mango varieties for Sylhet region To develop high yielding variety 	Jaintapur
392	Performance of mango varieties in hilly region	To observe the performances of mango varieties in hill valley	Raikhali
393	<i>In-situ</i> evaluation of selected coloured mango germplasm	To select the superior coloured mango germplasm(s) for releasing as a variety	Chapai Nawabganj and Rangpur (Burirhat)
394	<i>In-situ</i> evaluation of selected local elite mango germplasm	To select the superior germplasm(s) for releasing as a variety for commercial cultivation	Chapai Nawabganj, Rangpur (Burirhat)

SI No.	Research Title	Objective(s)	Location
395	Performance of SOM-1048 mango germplasm	To study the performance of SOM-1048 mango germplasm as a late superior mango variety	Chapai Nawabganj
396	Characterization of physio-morphological characteristics of exotic mango germplasm	To find out morpho-physico-chemical characteristics of exotic mango germplasm	Chapai Nawabganj
397	Clonal selection and characterization of mango cv. Khirsapat and Himsagar	<ul style="list-style-type: none"> To select the superior germplasm for commercial cultivation To identify/determine the characteristic differences among the two varieties 	Binodpur, Rajshahi
398	Yield potentialities of some promising mango varieties in Chittagong region	To find out best mango variety in Chittagong region	Hathazari
399	Evaluation of mango germplasm	<ul style="list-style-type: none"> To find out superior Mango genotypes to release as variety To study on the diversity of Mango genotypes 	Debiganj
400	Effect of environment on growth and phonology of mango cultivars	To study the phonological growth patterns of BARI released and popular mango cultivars influencing yield and adaptation process	Narsingdi
401	Hybridization in litchi	<ul style="list-style-type: none"> To incorporate desirable characters To develop new variety 	Gazipur
402	Collection, evaluation and maintenance of local and exotic litchi germplasm	<ul style="list-style-type: none"> To select superior genotype for release as variety To establish a litchi orchard for exploitation in breeding programme in future 	Gazipur, Jaintiapur, Burirhat and Ishwardi
403	Performance of banana varieties	<ul style="list-style-type: none"> To select superior one(s) for commercial cultivation To conserve germplasm 	Rahmatpur
404	Regional yield trial of plantain germplasm (set 1, 2 & 3)	<ul style="list-style-type: none"> To identify/select the suitable variety To observe adaptability 	Gazipur, Jamalpur, Hathazari, Jessore, Ishurdi, Rahmatpur and Raikhali
405	Collection and evaluation of plantain germplasm	<ul style="list-style-type: none"> To select the superior lines for commercial cultivation To conserve the genotyps 	Gazipur, Pahartali, Khagrachari, Burirhat and Jamalpur
406	Collection and evaluation of banana germplasm	<ul style="list-style-type: none"> To select the superior lines for commercial cultivation To release a new variety 	Gazipur, Pahartali, Khagrachari, Burirhat and Jamalpur
407	Evaluation of seeded banana germplasm	To find out the best germplasm in respect of yield and quality	Jamalpur
408	Regional yield trial of banana lines (Set-1)	To identify/select the suitable variety	Jamalpur, Hathazari,

SI No.	Research Title	Objective(s)	Location
		<ul style="list-style-type: none"> To know regional adaptability of banana 	Gazipur, Jessore, Ishurdi, Akbarpur, Raikhali, Narsingdi and Rahmatpur
409	Regional yield trial of banana lines (Set-II)	<ul style="list-style-type: none"> To verify regional adaptability of selected lines To release a new banana variety for cultivation 	Gazipur, Jamalpur, Hathazari, Jessore, Ishurdi, Rahmatpur and Raikhali
410	Clonal selection of banana	<ul style="list-style-type: none"> To select the superior strain(s) for commercial cultivation To conserve germplasm 	Burirhat and Jaintiapur
411	Performance of banana varieties / cultivars	<ul style="list-style-type: none"> To select superior one(s) for commercial cultivation To conserve germplasm 	Narsingdi
412	Performance of pineapple cultivars in different regions of Bangladesh	<ul style="list-style-type: none"> To select suitable varieties for commercial cultivation To observed performance of pineapple 	Narsingdi, Gazipur and Barisal
413	Clonal selection of pineapple for the development of small crown variety	<ul style="list-style-type: none"> To select the superior lines for release as variety To facilitate easy transportation 	Jaintiapur and Khagrachari
414	Evaluation of coconut germplasm	<ul style="list-style-type: none"> To select the superior lines To identify suitable germplasm for higher yield and quality 	Jaintiapur and Barisal
415	Collection, characterization and evaluation of mite resistant coconut germplasm	To select mite resistant coconut lines	Narshingdi
416	Evaluation of green coconut germplasm	<ul style="list-style-type: none"> To select the best line for using coconut as green purpose To conserve genetic resources 	Rahmatpur
417	Purification of shahi pepe through half-sib method	<ul style="list-style-type: none"> To regain the characteristics of Shahi Pepe To maintain the germplasm 	Gazipur and Binodpur
418	Collection, evaluation and conservation of hermaphrodite papaya germplasm	<ul style="list-style-type: none"> To develop gynodioecious variety To conserve the germplasm 	Gazipur
419	Development of population for gynodioecious papaya variety	<ul style="list-style-type: none"> To develop gynodioecious variety To conserve the gynodioecious variety 	Gazipur

SI No.	Research Title	Objective(s)	Location
420	Survey and collection of papaya germplasm	<ul style="list-style-type: none"> To select a suitable variety of Papaya To conserve germplasm 	Binodpur
421	Evaluation of colored fleshed guava	<ul style="list-style-type: none"> To find out high yielding colored guava variety 	Hathazari
422	Performance of exotic guava germplasm	<ul style="list-style-type: none"> To select suitable genotypes for commercial cultivation To exploit in hybridization programme 	Gazipur
423	Clonal selection of guava	<ul style="list-style-type: none"> To develop high yielding good quality guava variety To select quality guava lines for southern resion 	Chandanaish, Chittagong, Hathazari, Rahmatpur and Akbarpur
424	Hybridization in guava	<ul style="list-style-type: none"> To incorporate desirable characteristics To develop high yielding variety 	Gazipur
425	Collection and evaluation of local ber germplasm	<ul style="list-style-type: none"> To select suitable ber varieties for different regions To conserve fruit genetic resources 	Binodpur, Hathazari, Akbarpur, Raikhali, Gazipur, Jamalpur, Khagrachari, Narshingdi and Jaintiapur
426	Evaluation of indigenous germplasm of ber	<ul style="list-style-type: none"> To select superior lines for development of variety(s) To get higher yield 	Chapai Nawabgonj and Raikhali
427	Hybridization in ber	<ul style="list-style-type: none"> To incorporate desirable characters To get higher yield 	Jamalpur and Gazipur
428	Perfromance of some BARI released fruit varieties at Comilla region	To observe the performance of BARI released fruit varieties at comilla region	Comilla
429	Evaluation of existing sapota lines	<ul style="list-style-type: none"> To select superior sapota lines To increase yield and quality 	Ramgarh
430	Collection, evaluation and conservation of local and exotic citrus species	<ul style="list-style-type: none"> To conserve fruit genetic resources To collect, conserve and characterize local and exotic lines 	Jaintiapur and Akbarpur
431	Collection and evaluation of local pummelo germplasm	<ul style="list-style-type: none"> To select superior pummelo lines for releasing as variety To conserve genetic resources 	Akbarpur, Jaintiapur, Khagrachari, Jessore, Hathhazari, Raikhali, Burirhat, Ishurdi and Jamalpur
432	<i>In-situ</i> evaluation of year round pummelo germplasm	<ul style="list-style-type: none"> To find out superior genotypes of pummelo germplasm for better yield and insect-pest resistant To develop a suitable pummelo variety available for round the year 	Khagrachari

SI No.	Research Title	Objective(s)	Location
433	Evaluation of superior mandarin germplasm	<ul style="list-style-type: none"> To select the superior line To get higher yield and quality fruits 	Jaintiapur, Akbarpur, Khagrachari, Raikhali, Ramgarh, Debigonj, Raikhali and Ramgarh and Gazipur
434	Evaluation of lemon germplasm	<ul style="list-style-type: none"> To select suitable lines of lemon To conserve germplasm 	Gazipur and Akbarpur
435	<i>In-situ</i> evaluation of lemon germplasm in Char land	To evaluate the lemon germplasm in Charland of Jamalpur region	Jamalpur
436	Collection and evaluation of local and exotic lime germplasm	<ul style="list-style-type: none"> To select the superior lines for release a new variety To conserve genetic resoueces 	Gazipur, Binodpur, Rahmatpur, Khulna and Jessore
437	Collection and evaluation of satkara, ada jamir and jara lemon germplasm	<ul style="list-style-type: none"> To characterize and select suitable line(s) To conserve fruit genetic resources 	Akbarpur, Jaintiapur and Khagrachari
438	Collection and evaluation of lime, jaralebu and colombolebu germplasm	To evaluate the lime, Jara lebu and Colombo lebu germplasm at Jamalpur and Narshingdi region	Jamalpur and Narshingdi
439	Collection, characterization, evaluation and conservation of different citrus species (Jara lebu, Malta, Mandarin, Pummelo, Lime and Lemon)	<ul style="list-style-type: none"> To collect different citrus species To enrich genetic diversity of citrus 	Jaintiapur
440	Evaluation of satkara germplasm	<ul style="list-style-type: none"> To select suitable line(s) for commercial cultivation To conserve genetic resoueces 	Jaintiapur, Akbarpur and Ishurdi
441	Collection and evaluation of citrus rootstock germplasm	To evaluate the citrus rootstock germplasm at Jamalpur	Jamalpur
442	Hybridization in golden apple	<ul style="list-style-type: none"> To incorporate desirable characteristics to the existing varieties of golden apple for improving yield potential To develop a new hybrid 	Gazipur and Rahmatpur
443	Evaluation of golden apple germplasm	<ul style="list-style-type: none"> To select superior golden apple lines To conserve germplasm 	Rahmatpur and Jaintiapur
444	Evaluation of custard apple germplasm	<ul style="list-style-type: none"> To select superior lines of custard apple To conserve germplasm 	Gazipur, Binodpur and Chapai Nawabganj

SI No.	Research Title	Objective(s)	Location
445	Collection and evaluation of bullock's heart germplasm	<ul style="list-style-type: none"> To find out superior germplasm of bullock's heart To conserve genetic resources of fruits 	Chapai Nawabganj and Jessore
446	Evaluation and collection of superior Burmese grape genotype	To identify the superior lines of burmese grape	Narsingdi, Akbarpur and Jaintiapur
447	Collection, characterization and evaluation of pomegranate germplasm	To select a suitable variety of pomegranate	Narshingdi and Binadpur
448	Evaluation of collected pomegranate germplasm	<ul style="list-style-type: none"> To select a suitable variety of pomegranate To conserve germplasm 	Binodpur, Nawabgonj, Gazipur, Akbarpur and Raikhali
449	Evaluation of wax apple lines in hilly region	<ul style="list-style-type: none"> To identify and select the desirable Wax apple line(s) To conserve germplasm 	Raikhali and Khagrachari
450	Collection and evaluation of wax apple germplasm having year round productivity	To identify some suitable wax apple germplasm and to select the best line for year round production	Jessore
451	Characterization of Exotic wax apple	<ul style="list-style-type: none"> To select a suitable variety of wax apple To conserve germplasm 	Binodpur, Rajshahi and Gazipur, Gazipur
452	Evaluation of longan germplasm	<ul style="list-style-type: none"> To select suitable variety of longan To conserve fruit genetic resources 	Gazipur, Ramgarh, Burirhat and Khagrachari
453	Collection and evaluation of velvet apple, river ebony and karonda germplasm	To select superior lines and to conserve fruit genetic resources	Gazipur, Ramgarh, Rahmatpur and Hathazari
454	Collection and evaluation of golden apple, indian dillenia and cowa germplasm	To select superior lines and to conserve fruit genetic resources	Gazipur, Rahmatpur and Hathazari
455	Evaluation of collected Indian dellenia germplasm	To identify suitable germplasm for releasing variety	Jaintiapur
456	Collection and evaluation of aonla, rose apple, Indian olive and star gooseberry germplasm	To select superior lines and to conserve fruit genetic resources	Gazipur, Akbarpur, Pahartali, Rahmatpur, Khagrachari, Raikhali, Ramgarh, Jaintiapur, Hathazari and Debijong

SI No.	Research Title	Objective(s)	Location
457	Collection and evaluation of bael, wood apple, pomegranate, custard apple, bullock's heart and burmese grape germplasm	To select superior lines and to conserve fruit genetic resources	Gazipur, Nawabganj, Jessore, Burirhat, Hathazari, Rahmatpur, Jaintiapur, Akbarpur and Khagrachari
458	Collection and evaluation of bael germplasm	<ul style="list-style-type: none"> To select superior lines To conserve fruit genetic resources 	Burirhat, Jaintiapur and Ishwardi
459	Evaluation of bael Germplasm	To find out superior Bael genotypes to release as variety	Debiganj, Panchagarh
460	Collection and evaluation of wood apple germplasm	To select superior lines for releasing a variety	Jessore and Satkhira
461	Collection and evaluation of monkey jack, chapalish and deyfal germplasm	<ul style="list-style-type: none"> To select superior lines To conserve fruit genetic resources 	Gazipur, Jaintiapur, Rahmatpur, Ramgarh and Hathazari
462	Collection and evaluation of tamarind, folsa and lukluki germplasm	<ul style="list-style-type: none"> To select superior lines of tamarind, folsa and lukluki To conserve fruit genetic resources of tamarind, folsa and lukluki 	Gazipur, Binodpur, Akbarpur, Khagrachari and Narsingdi
463	Collection and evaluation of jamun germplasm	<ul style="list-style-type: none"> To find out superior genotypes of jamun germplasm for better yield and insect-pest resistant To develop a suitable jamun variety for commercial cultivation at hilly region 	Khagrachari, Ishurdi and Jamalpur
464	Collection and evaluation of jamun, carambola and bilimbi germplasm	<ul style="list-style-type: none"> To select superior lines To conserve fruit genetic resources 	Gazipur, Jamalpur and Binodpur
465	Evaluation of carambola germplasm	<ul style="list-style-type: none"> To select superior lines To conserve fruit genetic resources 	Debiganj and Pahartali
466	Evaluation of existing aonla germplasm at Pahartali	To observe the field performances as well as to find out genetic variations of existing aonla germplasm	Pahartali
467	<i>In-situ</i> evaluation of fig germplasm at Khagrachari	<ul style="list-style-type: none"> To find out superior genotypes of fig germplasm for better yield and insect-pest resistant To develop a suitable fig variety for commercial cultivation at hilly region 	Khagrachari
468	Collection and evaluation of minor fruits germplasm	<ul style="list-style-type: none"> To find out the suitable genotype(s) of minor fruit lines To conserve the minor fruit lines for diversification of genetic resources 	Ramgarh, Jamalpur, Gazipur, Jaintapur, Akbarpur, Binodpur, Hathazari, Raikhali, Khagrachari, Patuakhali, Narshingdi, Pahartali

SI No.	Research Title	Objective(s)	Location
469	Collection and evaluation of palmyra palm (<i>Borassus flabellifer</i> L.) germplasm	To find out the suitable germplasm for higher yield and better fruit quality	Gazipur and Jaintapur
470	Performance of grape germplasm	<ul style="list-style-type: none"> To find out superior genotypes of grape germplasm for better yield and insect-pest resistant To develop a suitable grape variety for commercial cultivation at hilly region 	Khagrachari and Narsingdi
471	Evaluation of avocado lines	<ul style="list-style-type: none"> To study yield and quality of fruits To find out the suitable lines of avocado 	Gazipur and Akbarpur
472	Evaluation of cashew nut germplasm in the hilly region	<ul style="list-style-type: none"> To identify the suitable lines for higher yield and year round production To enrich and conserve genetic resources 	Ramgarh and Raikhali
473	Evaluation of Cherry, Tisa and Star apple germplasm	<ul style="list-style-type: none"> To identify suitable lines for higher yield To select the superior variety 	Ramgarh
474	Evaluation of dragon fruit germplasm	<ul style="list-style-type: none"> To select the suitable line of dragon fruit To enrich and conserve germplasm <p>Location: Gazipur, Narshingdi, Pahartali, Raikhali, Khagrachari, Comilla, Jaintipur, Debiganj, Jessore, Potuakhali, Akbarpur, Burirhat and Jamalpur</p>	
475	Evaluation of exotic date palm lines	<ul style="list-style-type: none"> To find out the suitable lines for Bangladesh condition To enrich and conserve germplasm 	Gazipur, Akbarpur and Raikhali
476	Evaluation of persimmon germplasm	<ul style="list-style-type: none"> To select a suitable variety of persimmon To enrich and conserve germplasm 	Gazipur
477	Collection and evaluation of exotic fruit germplasm	<ul style="list-style-type: none"> To select superior lines To conserve fruit genetic resources <p>Location: Gazipur, Narshingdi, Pahartali, Raikhali, Khagrachari, Comilla, Jaintipur, Debiganj, Jessore, Potuakhali, Akbarpur, Burirhat and Jamalpur</p>	
478	Evaluation of pear germplasm	<ul style="list-style-type: none"> To develop a suitable variety of pear for agro-climatic condition of Bangladesh To enrich and conserve germplasm 	Jamalpur
Propagation Technique			
479	Effect of <i>in situ</i> grafting on growth, yield and quality of jackfruit	<ul style="list-style-type: none"> To find out the success of grafting and its subsequent growth To determine the influence of grafting on bearing, yield and quality of Jackfruit 	Gazipur
480	Effect of time and method of grafting in litchi	To find out the suitable time and method for litchi grafting	Gazipur
481	Performance of grafted litchi plant	<ul style="list-style-type: none"> To study the flowering and fruiting of grafted litchi plant To compare the performance of grafted litchi trees and air layered litchi trees 	Gazipur
482	Effect of rootstocks on growth, disease incidence	To increase yield and quality of guava	Gazipur

SI No.	Research Title	Objective(s)	Location
	and yield of guava	fruits. • To find out suitable rootstock for minimizing disease incidence of guava	
483	Effect of IBA and time on air layering of rambutan	To determine the suitable time of layering and concentration of IBA for maximizing success in air layering of rambutan	Gazipur and Khagrachari
484	Comparative performance of different methods on vegetative propagation of golden apple	To identify the suitable propagation method for golden apple	Rahamatpur, Barisal
485	Effect of root stock on the success of side grafting in wood apple	To find out suitable root stock for grafting in Wood apple	Hathazari
486	Effect of different rootstocks on the performance and yield of pummelo	• To find out the suitable rootstock(s) for pummelo • To increase yield and fruit quality of pummelo	Gazipur, Akbarpur, Raikhali, Khagrachari, Hathazari and Jamalpur
487	Performance of different rootstocks on the growth and yield of satkara	• To find out suitable rootstock for better growth and higher survival • To increase yield and quality of satkara	Jaintiapur
488	Influence of rootstock on the growth, yield and quality of mandarin	• To find out the suitable rootstock for mandarin • To increase yield and quality of mandarin	Jaintapur and Raikhali
489	Effect of rootstocks on growth and yield of mandarin	• To find out a suitable rootstock for mandarin • To increase yield and fruit quality of mandarin	Gazipur, Akbarpur, Raikhali, Khagrachari, Hathazari and Jamalpur
490	Effect of rootstocks on leaf nutrients, tree growth, fruit quality and yield of sweet orange	• To determine the most ideal rootstock for sweet orange • To increase yield and fruit quality of sweet orange	Gazipur, Akbarpur, Raikhali, Khagrachari, Hathazari and Jamalpur
491	Influence of rootstock on the growth, yield and quality of sweet orange var. BARI Malta-1	• To find out the suitable rootstocks for sweet orange • To increase yield and quality of sweet orange	Jaintiapur
492	Propagation of BARI Kamla-1 and BARI Malta-1 by shoot tip grafting	To produce disease free mother plants	Jaintiapur
493	Effect of time and method of grafting on the success of propagation of custard apple	• To find out the effective time of grafting of custard apple • To find out suitable method of grafting of custard apple	Binodpur
494	Effect of time and method of grafting on the success of propagation of jamun	• To find out the optimum time of grafting for higher success • To find out suitable method of grafting of jamun	Binodpur

SI No.	Research Title	Objective(s)	Location
495	Effect of time and method of grafting on golden apple	<ul style="list-style-type: none"> To develop improved propagation technique To maximize the success of vegetative propagation 	Gazipur and Rahmatpur
496	Standardization of grafting methods and time in pomegranate	<ul style="list-style-type: none"> To determine the suitable and comparatively easy grafting method for pomegranate for large scale sapling production To find out the suitable time of grafting 	Gazipur
497	Influence of rootstock and time of grafting on the success and growth of jaboticaba	<ul style="list-style-type: none"> To find out the suitable rootstock for grafting To select optimum time of grafting in jaboticaba 	Khagrachari
498	Standardization of seed germination protocol for strawberry	To standardize seedling raising method for breeding purpose	Gazipur
499	Effect of GA ₃ on runner production of strawberry	<ul style="list-style-type: none"> To study the effect of GA₃ on runner production of strawberry To standardize the concentration of GA₃ for vegetative propagation of strawberry 	Gazipur and Norshingdi
500	Regeneration of strawberry through <i>in vitro</i> culture	To develop suitable protocol for rapid multiplication	Narsingdi
Cultural Management			
501	Effect of pollen preservation and pollination on size, shape and yield of jackfruit	<ul style="list-style-type: none"> To study pollen viability of jackfruit germplasm at different days of storage To pollinate female inflorescence with suitable and viable pollen To reduce the deformity in jackfruit and increasing yield 	Gazipur
502	Split application of fertilizer on growth, yield and quality of jackfruit	<ul style="list-style-type: none"> To promote the initial growth rate of jackfruit saplings To standardize the judicious use of fertilizer 	Gazipur
503	Performance of grafted, tissue culture and seedling plants of BARI Kanthal-2	To find out the performance of grafted, tissue culture and seedling plants of BARI Kanthal-2	Ramgarh
504	Effect of municipal compost on yield and quality of jackfruit	<ul style="list-style-type: none"> To observe the effect of municipal compost on growth and yield of Jackfruit To increase the quality of fruits. 	Hathazari
505	Growth, yield and quality of mango as influenced by fertilizer and irrigation	<ul style="list-style-type: none"> To investigate the effect of fertilizer and irrigation in mango To increase the growth, yield and quality of mango 	Gazipur
506	Organic production of mango	<ul style="list-style-type: none"> To investigate the effect of organic manures (compost/cowdung/any other) in mango To standardize the organic manures (compost/cowdung/any other) for quality mango production 	Gazipur

SI No.	Research Title	Objective(s)	Location
507	Effects of dose of paclobutrazol on the growth and first flowering of intact seedlings of mango obtained from cv. Ashwina	<ul style="list-style-type: none"> To find out the effective dose of paclobutrazol for inducing first flowers on intact seedling of mango. To reduce the time of evaluation of chance seedling obtained from cv. Ashwina. 	Binodpur
508	Effects of gibberellins and frequency of application on the delay harvesting, yield and fruit quality of mango cv. Langra	<ul style="list-style-type: none"> To find out the effects of GA3 on delay harvesting of mango To find out the effects of GA3 on the yield and fruit quality of mango 	Binodpur
509	Influence of age of rootstocks on the performance of F ₁ mango hybrids	<ul style="list-style-type: none"> To hasten the time taken for flowering in F₁ seedling plants To get higher yield 	Chapai Nawabgonj
510	Role of pruning on the tree size of mango	<ul style="list-style-type: none"> To control the tree size of mango To facilitate management practices of mango tree 	Chapai Nawabgonj
511	Role of paclobutrazol application and doses of fertilizer on tree growth and bearing habit of mango	<ul style="list-style-type: none"> To find out the effect of paclobutrazol application on regularity of bearing in mango To find out the effective dose of fertilizers applications to keep the plant healthy condition 	Nawabganj
512	Vegetative growth, harvesting time, yield and quality of mango as influenced by soil drench application of paclobutrazol	<ul style="list-style-type: none"> To investigate the effect of paclobutrazol on vegetative growth, flowering and fruiting of mango To increased yield and quality of fruits To minimize alternate bearing habit 	Jamalpur
513	Role of bagging on the yield and quality of mango	<ul style="list-style-type: none"> To improve quality of mango To protect insect and disease incidence 	Gazipur
514	Effects of fruit bagging on colour development and shelf life of mango cultivars	<ul style="list-style-type: none"> To find out the suitable bagging material To ensure safe and good quality mango with minimum use of pesticides 	Chapai Nawabganj, Rajshahi, Rangpur, Khagrachari
515	Rejuvenation of densely planted mango tree through time and level of pruning	<ul style="list-style-type: none"> To regenerate flowering and fruiting of mango tree To increase yield potentiality 	Nawabgonj and Gazipur
516	Effect of dose and spilt application of fertilizer on harvesting time, yield and quality of mango	<ul style="list-style-type: none"> To investigate the effect of fertilizer on increasing yield and quality of mango To find out the suitable application method 	Jamalpur
517	Identification and performance study of nucellar and zygotic seedling in polyembryonic mango variety BARI Aam-8	<ul style="list-style-type: none"> To differentiate the nucellar and zygotic mango seedlings To study the growth pattern of nucellar and zygotic seedlings 	Pahartali

SI No.	Research Title	Objective(s)	Location
518	Performance of high density planting on the growth, yield and quality of mango	<ul style="list-style-type: none"> To maximize yield and quality To use land judiciously 	Gazipur
519	Effect of pruning on the flowering and yield of mango	<ul style="list-style-type: none"> To find out the effect of type of pruning To increase flowering and yield in mango on off and on year of production 	Chapai Nawabganj
520	Tree size management in mango	<ul style="list-style-type: none"> To control the tree size for better management like bagging, harvesting, reducing disease and insect infestation To get higher yield and quality of mango 	Gazipur
521	Effect of tip pruning on yield and fruit quality of mango cv. Gopalbhog	<ul style="list-style-type: none"> To find out the effects of tip pruning To find out suitable length of pruning 	Chapai Nawabganj
522	Effect of different treatments on the tree stature of mango var. Fazli	To find out the effective method for controlling tree stature of mango	Binodpur
523	Effect of municipal compost on yield and quality of mango	<ul style="list-style-type: none"> To observe effect of municipal compost on yield and to increase yield of mango To utilize municipal waste effectively 	Hathazari
524	Role of fertilizer doses on the flowering, yield and quality of mango	<ul style="list-style-type: none"> To evaluate the effective dose of different fertilizers To increase production of mango in terms of yield and quality 	Chapai Nawabganj
525	Effect of different management practices in controlling Mango black tip disorder	<ul style="list-style-type: none"> To know the effect of boron in controlling black tip disease in mango To develop a management package 	Jessore, Pirojpur, Magura and Meherpur
526	Effects different management practices to overcome alternate bearing habit of mango cv. Langra	<ul style="list-style-type: none"> To overcome alternate bearing habit of mango To increase mango production 	Chapai Nawabganj
527	Response of salicylic acid on flowering, fruit set, yield and quality of mango	<ul style="list-style-type: none"> To optimize the dose of salicylic acid for higher yield and better quality mango production To find out the response of mango varieties to salicylic acid treatment 	Chapai Nawabganj
528	Effects of integrated nutrient management on yield of mango in hilly region of Bangladesh	To identify better combination of organic and inorganic fertilizer package for sustainable productivity of mango in hill	Khagrachari & Bandarban
529	Effect of liming on yield performance of mango	<ul style="list-style-type: none"> To observe the effectiveness of added lime on the crop performance To observe Phosphorous uptake as affected by liming 	Khagrachari
530	Effects of different post harvest treatments on quality of mango	To evaluate different botanical extracts for the reduction of postharvest losses	Chapai Nawabganj and Khagrachari

SI No.	Research Title	Objective(s)	Location
531	Effect of foliar application of micronutrient (boron and zinc) on the yield and quality of mango (<i>Mangifera indica</i> L.) cv. Mollica	To assess the influence of foliar application of B and Zn in improving the fruit yield and quality of mango	Chapai Nawabganj
532	Bio-chemical analysis of mango after bagging	To know the bio-chemical composition of each mango variety after bagging	Chapai Nawabganj, Binadpur, Burirhut, Khagrachari
533	Effect of post-harvest pruning on tree size, fruit quality and yield of mango in hilly area	<ul style="list-style-type: none"> To find out the suitable pruning method of mango for maintaining tree size To observe the impact of pruning on yield and quality of mango 	Raikhali
534	Time of fruit bagging on yield, fruit quality and insect-diseases infestation of mango in hilly area	To find out the optimum bagging time for quality mango production	Raikhali
535	Effect of irrigation and mulching on water use efficiency in banana	<ul style="list-style-type: none"> To find out the optimum irrigation for banana To increase the water use efficiency of banana 	Jaydebour
536	Integrated fertilizer application on the yield of banana	To standardize packages of organic & inorganic fertilizer for Banana	Hathazari
537	Effect of time of allowing suckers on yield and fruit quality in banana varieties	<ul style="list-style-type: none"> To find out the suitable date for allowing sucker of banana To increase the land use efficiency in banana 	Gazipur
538	Study on the pollen viability of litchi germplasm	To determine the pollen viability for hybridization	Gazipur
539	Effect of growth regulator and bagging on harvesting period, shelf life and fruit quality in litchi	To extend the litchi harvesting period	Gazipur, Akberpur, Khagrachari and Debigonj
540	Effect of liming (dolochun) on yield and fruit quality of litchi in hilly area	<ul style="list-style-type: none"> To find out the optimum dose of dolochun for hilly area To achieve better yield and quality of litchi 	Akbarpur
541	Effect of frequency of irrigation and dose of fertilizer on the flowering behavior and yield of litchi	<ul style="list-style-type: none"> To find out the suitable fertilizer dose for litchi production To find out the effect of irrigation on litchi production 	Binodpur
542	Effect of types of pruning on the tree canopy and yield of litchi	<ul style="list-style-type: none"> To find out the effective type of pruning for controlling the tree canopy of litchi To find out the effects of pruning on the yield of litchi 	Binodpur

SI No.	Research Title	Objective(s)	Location
543	Effect of liming on yield performance of malta, litchi and mango	<ul style="list-style-type: none"> To observe the effectiveness of added lime on the crop performance To observe Phosphorus uptake as affected by liming 	Khagrachari
544	Effect of pseudostem cutting on the growth and yield of banana	<ul style="list-style-type: none"> To evaluate the performance of pseudostem cutting on the growth and yield of banana To reduce plant height & robust the plant To prevent pseudostem breaking due to storm 	Jamalpur
545	Induction of dwarfing growth habit of coconut through root and shoot treaming	<ul style="list-style-type: none"> To reduce unproductive juvenile period of coconut To get higher yield and quality fruits 	Rahamatpur, Patuakhali, Narsingdi
546	Effect of wrapping papers on physiological changes and shelf-life of golden apple	<ul style="list-style-type: none"> To obtain information on some physical changes during ripening with different postharvest wrapping paper treatments To know the shelf life of golden apple 	Rahmatpur
547	Effect of nitrogen fertilization at various phenological stages on growth, yield and fruit quality of sweet orange var. BARI Malta-1	Tresponse to different applied N-fertilizing regime in regard to N application frequencies on vegetative growth, yield and fruit quality of BARI Malta-1	Jaintapur
548	Yield and profitability of sweet orange var. BARI Malta-1 as influenced by organo-mineral fertilizer	<ul style="list-style-type: none"> To examine the cost effectiveness of the use of organic-based fertilizers To determine the optimum rate of organo-mineral fertilizer in citrus production 	Jaintapur
549	Effect of N P K Fertilizer on yeld and quality of sweet orange var. BARI Malta-1	<ul style="list-style-type: none"> To establishing criteria for fertilizer recommendations based on soil test and leaf analyses To find out optimum doses of NK and ratio of N/K for maximum yield and fruit size of Malta 	Jaintapur
550	Effect of municipal compost on yield and quality of sweet orange	<ul style="list-style-type: none"> To observe the effect of municipal compost on yield of malta To get high quality fruits 	Hathazari
551	Effect of Zn as foliar spray on the growth and yield of sweet orange	<ul style="list-style-type: none"> To determine the optimum level of zinc for better growth and yield of sweet orange To increase fertilizer uptake 	Raikhali
552	Effect of growth regulator on prevention of fruit drop in sweet orange	To prevent the fruit loss due to fruit dropping in sweet orange	Narsingdi
553	Effect of liming (dolochun) on flowering and fruit setting in satkara	<ul style="list-style-type: none"> To reduce fruit drop and increasing yield To obtain quality fruits 	Akbarpur
554	Response of mandarin to liming (dolochun)	To find out the optimum dose of dolochun for maximizing yield and fruit quality of mandarin	Akbarpur
555	Response of sweet orange to liming (dolochun)	To find out the optimum dose of dolochun for maximizing yield and fruit quality of malta	Akbarpur

SI No.	Research Title	Objective(s)	Location
556	Effect of irrigation and growth regulators on fruit drop in mandarin	<ul style="list-style-type: none"> To determine the effect of growth regulators on control of fruit drop in mandarin To grow mandarin under irrigation and rain-fed condition 	Akbarpur, Jaintapur and Khagrachari
557	Selection of suitable shade tree(s) for mandarin production	<ul style="list-style-type: none"> To Select a suitable shade tree(s) for mandarin orchard To increase yield and quality of fruits 	Jaintapur
558	Protective culture of BARI Kamala-1 and BARI Malta-1	<ul style="list-style-type: none"> To standardize protective cultivation procedure for BARI Kamala-1 and BARI Malta-1 To increase mass production of BARI Kamala-1 and BARI Malta-1 	Jaintipur
559	Effect of organic and inorganic fertilizers on the yield and quality of sweet orange	<ul style="list-style-type: none"> To evaluate the response of organic fertilizer on sweet orange To increase yield and quality of fruits 	Hathazari
560	Split application of fertilizer on growth, yield and quality of BARI Malta-1	<ul style="list-style-type: none"> To promote the initial growth rate of BARI Malta-1 sapling and fruit quality To standardize the judicious use of fertilizer 	Narsingdi
561	Influence of sowing time on germination and growth of different citrus rootstocks seedling under high rainfall area	<ul style="list-style-type: none"> To find out the suitable time of sowing To select suitable rootstock seedlings 	Jaintipur
562	Identification and performance of the nucellar and zygotic seedlings of citrus in polyembryonic citrus varieties	<ul style="list-style-type: none"> To differentiate the nucellar and zygotic citrus seedlings To study the growth pattern of the nucellar and zygotic citrus seedlings 	Jaintapur
563	Effect of drip irrigation on yield performance of sweet orange in hill slope	<ul style="list-style-type: none"> To determine the appropriate irrigation schedule of Malta To determine the irrigation requirement of Malta during dry season 	Khagrachari
564	Effect of high density planting on growth, yield and quality of guava	<ul style="list-style-type: none"> To maximize yield and quality To maximize the use of land 	Gazipur
565	Effects of fertilizers dose with split applications and main-season fruit thinning on winter season guava production	<ul style="list-style-type: none"> To find out the effects of fertilizers dose and its application installment on the winter season guava production To find out the effects of main-season fruit thinning on winter season production 	Rajshahi
566	Growth, yield and quality of ber as influenced by irrigation and mulching	<ul style="list-style-type: none"> To minimize the fruit drop To increase the yield and quality 	Jamalpur
567	Yield and quality of ber as influenced by irrigation	<ul style="list-style-type: none"> To increase yield and obtain high quality fruits To observe effect of irrigation on ber 	Hathazari
568	Split application of fertilizer on harvesting time, yield and quality of ber	<ul style="list-style-type: none"> To investigate the effect of fertilizer at different stages of plant growth To find out the suitable harvesting time, yield and quality of ber 	Jamalpur

SI No.	Research Title	Objective(s)	Location
569	Effect of post-harvest pruning on the growth, yield and quality of ber var. BARI Kul-4 in hilly area	<ul style="list-style-type: none"> To determine the allowing optimum branches for the desirable canopy to better ber production To obtain the quality fruits of ber by this management work 	Raikhali
570	Split application of fertilizer on growth, yield and quality of lotkon	<ul style="list-style-type: none"> To promote the initial growth rate of lotkon sapling and fruit quality To standardize the judicious use of fertilizer 	Narsingdi
571	Determination of NPKS doses on the growth and yield of sweet orange var. BARI Malta-1 in hill slope	To investigate the effect of NPK in BARI Malta-Determination of proper fertilizer doses for the yield of BARI Malta-1	Ramgarh
572	Effect of potting media and organic matter on growth and survivability of strawberry propagules	<ul style="list-style-type: none"> To find out suitable rooting media for strawberry propagation To select suitable method for runner establishment in poly bag 	Gazipur and Narsingdi
573	Effect of planting time and spacing on growth, yield and fruit quality of strawberry	To find out the optimum planting time of strawberry for better growth and yield	Narsingdi
574	Effect of tricho-compost and tricho-leachate for management of soil-borne pathogens and production of healthy strawberry runner and seedlings	<ul style="list-style-type: none"> To find out suitable management against soil borne pathogens To determine the effect of tricho-compost and tricho-leachate on healthy strawberry runner production 	Narsingdi
575	Comparison of the plasticulture and conventional production systems in strawberry	To determine the suitable planting system for strawberry	Gazipur
576	Effect of different doses of organic manures in combination with chemical fertilizers on the growth and yield of dragon fruit	<ul style="list-style-type: none"> To know the effect of organic manures on the production of dragon fruit To select the best combination of fertilizers on the production of dragon fruit 	Jessore and Bagdanga, Churamnkathi (Jessore sadar)
577	Development of fertilizer management package for Dragon fruit cultivation in Bangladesh	<ul style="list-style-type: none"> To know the appropriate time and fertilizer doses for dragon fruit cultivation To select the best combination of fertilizers on the production of dragon fruit To develop a fertilizer management package for Dragon fruit cultivation in Bangladesh 	Jessore, Jamalpur, Narsingdi and Gazipur
578	Yield and quality of dragon fruit as influenced by blooming flushes in hilly area	<ul style="list-style-type: none"> To investigate the floral biology of Dragon fruit To determine the morphological differences in our climatic condition 	Raikhali

SI No.	Research Title	Objective(s)	Location
Physiological Studies			
579	Effect of plant growth regulator on minimization of the incidence of mango malformation cv. BARI Aam -3	<ul style="list-style-type: none"> To find out the suitable dose of NAA for the reduction of panicle (floral) malformation To observe the effect of NAA on fruit yield 	Gazipur, Chapai Nawabganj
580	Effects of different fertilizers on internal breakdown of cv. BARI Aam-3	To get jelly seed free of BARI Aam-3	Chapai Nawabganj
Disease Management			
581	Efficacy of chemicals in controlling floral malformation of mango	To find out effective chemicals to control floral malformation of mango	Major Mango growing areas of Bangladesh
582	Effect of carbendazim (Bavistin) in controlling post harvest rot of mango through post harvest dipping	To find out the suitable dose of carbendazim (Bavistin) in controlling stem end rot of mango	Chapai Nawabganj
583	Integrated management of stem-end rot of mango	To find out an effective and suitable control measure of the disease	Chapai Nawabganj
584	Survey and identification of causal pathogen of black spot of litchi at Rajshahi region	<ul style="list-style-type: none"> To identify the causal agent of black spot of litchi To know the incidence of black spot of litchi 	Binodpur
585	Survey and identification of different diseases of coconut	<ul style="list-style-type: none"> To identify the different diseases of coconut To know the status of different diseases of coconut 	Patuakhali region
586	Survey of pest and diseases incidence of citrus crop at Jamalpur region	To find different diseases and insects of citrus at Jamalpur region	Jamalpur
587	Efficacy of fungicides and botanical extracts on the management of leaf spot/ leaf rot/ leaf blight of coconut seedlings	<ul style="list-style-type: none"> To identify the best control measure To ensure appropriate vegetative growth as well as increase yield 	Patuakhali
588	Survey on the prevalence of greening disease of citrus species	<ul style="list-style-type: none"> To identify the diseases of Citrus at different locations To determine the severity of the disease 	Gazipur, Jaintiapur, Hathazari, Raikhali, Khagrachari
589	Survey on the prevalence of canker disease of citrus	<ul style="list-style-type: none"> To identify the diseases of Citrus at different locations To determine the comparative disease tolerance in different Citrus species 	Akbarpur, Raikhali, Jaintiapur, Shibpur, Gazipur, Jamalpur
590	Survey on the prevalence of gummosis disease of citrus	<ul style="list-style-type: none"> To find out causal organism of gummosis for specific citrus sp To find out severity of gummosis in citrus at different location 	Gazipur, Jaintiapur, Hathazari, Raikhali, Khagrachari

SI No.	Research Title	Objective(s)	Location
591	Management of canker disease of citrus	To develop appropriate technology against canker disease management for exporting	Gazipur, Narsingdi, Jamalpur, Comilla, Jaintapur, Akbarpur, Raikhali, Khagrachhori, Hathazari and Debigonj
592	Isolation and identification of fungal diseases of strawberry	<ul style="list-style-type: none"> To identify of prevailing fungal diseases To study its morphological and cultural characteristics of associated fungi 	Binodpur
593	Survey on the occurrence of diseases of golden apple in Barisal region	<ul style="list-style-type: none"> To identify the diseases of Golden apple To determine the severity of the diseases 	Barisal region
594	Identification of diseases of dragon fruits	<ul style="list-style-type: none"> To find out the diseases of dragon fruits with causal organisms To select the effective control measures 	Raikhali
595	Collection and identification of pathogens associated with infected plant parts of straw berry	<ul style="list-style-type: none"> To identify the associated pathogens with straw berry production To determine the severity of damage caused by the most prevalence pathogens 	Gazipur
596	Management of black spot disease of BARI Malta-1 in hilly region	To find out an effective control measure against black spot disease of malta	Khagrachari
Insect Pest Management			
597	Standardization of dispenser type for exposing basil extract against fruit fly, <i>Bactrocera dorsalis</i>	<ul style="list-style-type: none"> To identify suitable dispenser for exposing basil extract To increase efficacy of basil extract 	Gazipur
598	Efficacy of different insecticides against mealy bug in ber	<ul style="list-style-type: none"> To find out the effective control measure against ber mealy bug To find out the damage potential by ber mealy bug 	Binodpur
599	Survey and mapping of insect pests associated with selected citrus crops	<ul style="list-style-type: none"> To document insect pests in citrus To identify locations and crops in relation to incidence of insect pests To formulate appropriate management strategies for insect pests 	Gazipur, Narsingdi, Jamalpur, Comilla, Jaintapur, Akbarpur, Raikhali, Khagrachhori, Hathazari and Debigonj
600	Application of growth regulators sex pheromone traps against fruit drop in mandarin orange	<ul style="list-style-type: none"> To prevent pre-mature fruit drop in citrus To improve production and quality of citrus fruit 	Sylhet, Bandarban and Khagrachori

SI No.	Research Title	Objective(s)	Location
601	Development of management strategies for the control of citrus psylla and greening disease of citrus	<ul style="list-style-type: none"> To develop a control strategy for controlling citrus psylla To reduce greening disease in citrus 	Sylhet, Bandarban and Khagrachori
602	Assessment of pest status and management of trunk borer on golden apple in Barishal region	<ul style="list-style-type: none"> To determine the damage severity To develop appropriate strategy(s) for managing red banded mango caterpillar 	Rahmatpur
603	Integrated management of golden apple beetle	<ul style="list-style-type: none"> To develop an effective management package against golden apple beetle To increase yield and quality 	Gazipur and Rahmatpur
604	Development of integrated management approaches for trunk borer of golden apple in Barisal region	To develop an effective management option or a component technology for the management of trunk borer of golden apple	Jalakhathi and Pirozpur
605	Survey, monitoring and documentation of insect pests associated in lotkon	Identification of insect pests attacking lotkon Determination of damage severity of insect pests	Norsingdi
606	Development of suitable pest management package for mango in Hilly area	To find out the effective management tools against mango pest	Khagrachari
607	Survey of major fruit diseases in Hilly region of Bangladesh	To identify different diseases of major fruits grown in hilly area	Khagrachari
608	Survey and documentation of major insect pests of citrus	Documenting the major insect pests of citrus Recording natural enemies of the pests	Raikhali, Khagrachori, Hathazari and Debiganj
609	Development of management strategy (ies) for citrus flat mite infestation in lime	<ul style="list-style-type: none"> To develop a control strategy for controlling citrus flat mite in lime To increase production of export quality lime 	Gazipur, Narsingdi, Jamalpur, Comilla, Jaintapur, Akbarpur, Raikhali, Khagrachori, Hathazari and Debiganj
Soil Water Management			
610	Effect of urea super granule (USG) with different levels of poultry manure (PM) and cowdung on the yield and quality of banana	<ul style="list-style-type: none"> To study the comparative yield and quality performance of banana as affected by the different levels of USG and organic manures To develop USG-organic manure based fertilizer recommendation for quality banana production 	Gazipur and Norsingdi
611	Effect of different fertilizer management levels on growth, yield	To determine the effects of different fertilizer management levels on the vegetative and reproductive growth, leaf nutrient status, yield	Raikhali, Ramgarh and Khagrachari,

SI No.	Research Title	Objective(s)	Location
	and fruit quality of pummelo (<i>Citrus grandis</i>)	and fruit quality of pummelo (<i>Citrus grandis</i>) cv. BARI Jambura-1	Chittagong, Akbarpur, Moulvibazar
612	Influence of boron and zinc applications on growth, leaf nutrient status and fruit quality of mandarin (<i>Citrus reticulata</i>)	To investigate the influence of foliar application of boron (B) and zinc (Zn), on the growth, leaf nutrient status, productivity and fruit quality of <i>Citrus reticulata</i>	Raikhali, Khagrachhari, Chittagong, Akbarpur, Moulvibazar, Jaintapur and Sylhet
613	Effect of potassium on the growth, yield and quality of sweet orange	<ul style="list-style-type: none"> To show the effect of potassium on the fruit quality of sweet orange To develop an optimum dose of potassium for maximum growth and production of sweet orange in hilly area of Chittagong 	Raikhali, Khagrachhari, Hathazari, Jaintapur, Akbarpur
614	Response of Mandarin to N, P, K & Mg fertilizer in Hilly Region	<ul style="list-style-type: none"> To evaluate the response of mandarin to different nutrients To find out the optimum dose of NPKMg for maximizing yield and fruit quality of mandarin 	Akbarpur and Jaintapur
615	Integrated nutrient management package for mandarin production	<ul style="list-style-type: none"> To establish an efficient nutrient management package for mandarin production To find out the suitable dose of different nutrients for increasing the yield of mandarin 	Jaintapur
616	Effect of Mn, Zn and Cu addition on the yield and quality of sweet orange	<ul style="list-style-type: none"> To evaluate the response of sweet orange yield and quality to addition of Mn, Zn, and Cu To determine the optimum rate of Mn, Zn and Cu nutrients for quality sweet orange production 	Gazipur and Akbarpur
617	Effect of different irrigation method (s) on the growth and yield of Mandarin	<ul style="list-style-type: none"> To find out the appropriate irrigation method(s) for Mandarin To predict an effective irrigation schedule for mandarin cultivation 	Gazipur
618	Effect of irrigation and mulch on the growth and yield of strawberry	<ul style="list-style-type: none"> To investigate the response of strawberry to irrigation and Mulching To determine an appropriate irrigation schedule for strawberry 	Gazipur and Burirhat
619	Response of strawberry to boron and zinc fertilization	To find out the optimum dose of boron and zinc for maximizing yield of strawberry	Gazipur
Post Harvest Management			
620	Influence of 1-Methyl clopropene and chitosan coating treatments on storage life and quality of fresh mango	<ul style="list-style-type: none"> To extend the storage life of mango maintaining better fruit quality To enhance the export potential of fresh fruits of Bangladesh 	Gazipur
621	Impacts of salicylic acid on quality and shelf life of mango	To determine the appropriate dose of salicylic acid minimizing quality deterioration	Chapai Nawabganj

SI No.	Research Title	Objective(s)	Location
622	Shelf life of fruits as influenced by edible coating	<ul style="list-style-type: none"> To study the preparation and optimum concentration of coating materials To study the effect of edible coating to extend the shelf life of fruits 	Joybedpur
623	Effects of packaging with medicinal herbs on postharvest quality of mango	<ul style="list-style-type: none"> To observe quality change due to medicinal herbs in market chain To reduce decay and damages after harvesting to retailing To extend the shelf life 	Joybedpur
624	Quality of jackfruit bulb as affected by minimal processing	To identify suitable temperature for preservation of the minimally processed jackfruit bulb	Gazipur
625	Determination of maturity indices and quality characteristics of selected fruits	<ul style="list-style-type: none"> To find out the proper stage of maturity To maintain quality and extend shelf life/marketable life 	Gazipur
626	Optimization maturity indices of BARI released and commercial mango varieties	To find out the optimum date of harvesting ensure taste and good quality fruits of each variety	Chapai Nawabganj
627	Determination of bio-chemical properties of mango varieties released from RHRS, Chapai Nawabganj	<ul style="list-style-type: none"> To determine the bio-chemical properties in different BARI released mango varieties. To compare nutritional status among the varieties 	Chapai Nawabganj and Gazipur
628	Determination of optimum harvesting time of kacha mitha mango variety 'BARI Aam-9'	<ul style="list-style-type: none"> To find out the optimum harvesting time To determine the bio-chemical properties in different maturity stages of 'BARI Aam-9' 	Chapai Nawabganj
629	Effect of drying on the quality and acceptability of jackfruit leather	<ul style="list-style-type: none"> To find out the effect of drying To find out the suitable packaging 	Gazipur
630	Technique for home preservation of mango	<ul style="list-style-type: none"> To identify the suitable food additive/preservative for mango preservation in freeze To identify the storage time of prepared mango 	Gazipur
631	Effect of minimal processing on the quality of litchi	<ul style="list-style-type: none"> To identify the suitable food additive/preservative for litchi preservation in freeze To identify the storage time of prepared litchi 	Gazipur
632	Shelf life of citrus fruits as influenced by skin coating	<ul style="list-style-type: none"> To find out the optimum concentration of coating materials To study the effect of coating to extend the shelf life of fruits 	Gazipur
633	Effect of ethylene in degreening and postharvest quality of BARI Malta-1	<ul style="list-style-type: none"> To develop yellowish peel color of BARI Malta-1 for better marketing To standardize the application method and effective dose of ethylene for degreening of malta fruit 	Gazipur

SI No.	Research Title	Objective(s)	Location
634	Efficacy of 1-methylcyclopropene in prolonging the storage life of lemon	<ul style="list-style-type: none"> To extend the storage life of lemon maintaining better quality To increase the export potential of lemon 	Gazipur
635	Optimization of methods of processing for selected fruit	<ul style="list-style-type: none"> To standardize the methods of processing To minimize the postharvest losses of fruits 	Gazipur
636	Determination of maturity indices and quality characteristics of mango	<ul style="list-style-type: none"> To find out the proper stage of maturity To maintain quality and extend shelf life/marketable life 	Gazipur
Socio- economic studies			
637	Adoption of BARI Peyara-2 and its constraints to higher production in some selected areas of Bangladesh	<ul style="list-style-type: none"> To know the adoption status of BARI Payara-2 To estimate the profitability of improved BARI Peyara-2 at farm level 	Gazipur
638	Explore and evaluation of floating market in the southern part of Bangladesh	<ul style="list-style-type: none"> To explore the marketing system of the study areas To identify the marketing chains of different traded agricultural crops To estimate the marketing cost of different marketed produces To discover the causes of development or grow this type of markets 	Bagerhat, Barisal and Pirojpur
639	Livelihood and Productivity: A Study on Major Fruits Cultivation in South and South-Western Region of Bangladesh	<ul style="list-style-type: none"> To explore the status and dynamics of livelihood profile of south and south and south western part of Bangladesh To assess the current productivity and profitability of fruits grown in their homestead garden To determine the fruit consumption and nutritional status of the households; 	South and South-Western Regions of Bangladesh
Agro- Forestry			
640	Compatibility along with profitability of naga morich with different lemon species	<ul style="list-style-type: none"> To select suitable mixed crop combination To get higher yield and quality of crops 	Akbarpur
641	Evaluation of Multi-Storied cropping systems in mango orchard	<ul style="list-style-type: none"> To find out the sustainable land utilization system To maximize the economic benefits and To mitigate the malnutrition of rural people 	Jessore Narail Sadar Jhikargacha, Jessore, Ramghar and Jamalpur
642	Adaptability of different shade tolerant crops under established fruit orchard	<ul style="list-style-type: none"> To find out suitable crops for growing under permanent fruit tree To increase the farm income and year round production 	Gazipur
643	Performance of different fruit under multi strata cropping system	<ul style="list-style-type: none"> To increase the farm income Year round production 	Gazipur

SI No.	Research Title	Objective(s)	Location
644	Study on the performance of fruit based agroforestry systems in hill slope	To determine suitable agro-forestry system for better yield of fruit and economic return	Ramgarh
645	Intercropping of ginger and turmeric in mango orchard	<ul style="list-style-type: none"> To find out the suitability of ginger and turmeric in mango orchard as intercrop. To evaluate the economic benefit of intercropping system 	Jessore
Urban Horticulture			
646	Standardization of growth media for roof gardening of mango	<ul style="list-style-type: none"> To find out the optimum soil media for mango cultivation on roof To plant and get higher yield from roof gardening 	Gazipur
647	Standardization of growth media for roof gardening of guava	<ul style="list-style-type: none"> To find out the optimum soil media for guava cultivation on roof To plant and get higher yield from roof gardening 	Gazipur
648	Standardization of growth media for roof gardening of ber	<ul style="list-style-type: none"> To find out the optimum soil media for ber cultivation on roof To plant and get higher yield from roof gardening 	Gazipur
649	Standardization of pot culture method for BARI Kamala-1	<ul style="list-style-type: none"> To select suitable pot size for culturing BARI Kamala-1 To select suitable potting media for BARI Kamala-1 	Jaintiapur
650	Standardization of soil media for roof gardening of sweet orange	<ul style="list-style-type: none"> To standardize pot media for roof gardening of malta To plant and get higher yield from roof gardening 	Gazipur
651	Standardization of growth media for roof gardening of dragon fruit	<ul style="list-style-type: none"> To standardize soil media for dragon fruit cultivation on roof To get higher yield 	Gazipur
Adaptive Trial			
652	Adaptive trial of mango varieties in coastal, hilly and char areas	To verify the adaptation ability of mango varieties in the coastal, hilly and char areas	Cox's Bazar, Noakhali, Patuakhali, Bandarban, Kushtia
653	Adaptive trial of BARI released banana varieties	<ul style="list-style-type: none"> To observe the performance of BARI released banana varieties To verify the adaptation ability of banana varieties 	Patuakhali, Narsingdi, Comilla, Bandarban and Khagrachari
654	Adaptive trial of guava variety in coastal, hilly and char areas	<ul style="list-style-type: none"> To verify the adaptation ability of guava varieties in the coastal, hilly and char areas To get higher yield 	Cox's Bazar, Noakhali, Patuakhali, Bandarban and Char Golapnagar of Kushtia
655	Adaptive trial of ber varieties in coastal, hilly	To verify the adaptability of ber varieties in the coastal, hilly and char areas	Cox's Bazar, Noakhali, Patuakhali,

SI No.	Research Title	Objective(s)	Location
	and char areas	<ul style="list-style-type: none"> To get higher yield from those areas 	Bandarban and Char Golapnagar of Kushtia
656	Adaptive trial of Sapota varieties in coastal, hilly and char areas	To verify the adaptation ability of sapota varieties in the costal, hilly and char areas	Cox's Bazaar, Noakhali, Patuakhali, Bandarban and Char Golapnagar of Kushtia
657	Adaptive trial of BARI Malta-1 in coastal, hilly, char land, northern, eastern and central region of Bangladesh	<ul style="list-style-type: none"> To study the adaptation ability of BARI Malta-1 in the costal, hilly, char land, northern, eastern and central areas of Bangladesh To increase yield 	Cox's Bazaar, Noakhali, Patuakhali, Bandarban, Kushtia, Rangpur, Tangail, Jamalpur, Sylhet and Comilla
Maintenance and Conservation of Fruit Germplasm			
658	Enrichment and maintenance of elite fruit tree repository	To conserve and maintain the improved varieties of fruits as well as the improved recommended varieties centrally in one site in a more secure repository for future use and proper maintenance	Bio-technology Division Laboratory (Gazipur)
659	Enrichment and maintenance of elite fruit tree multiplication block	To supply true-to-type quality planting materials to the partner organizations as well as to the nursery associations for the establishment of FMTOs	Burirhat, Jamalpur, Akbarpur, Hathazari, Jessore and HRC Stations
660	Enrichment and maintenance of indigenous fruit germplasm centre	<ul style="list-style-type: none"> To conserve identified lines in the field gene bank To select superior fruit varieties 	Debiganj
661	Mother orchard establishment of BARI released citrus fruit varieties	To supply true to type quality planting materials released varieties	Jaintiapur
Techonolgy Transfer			
662	Training on fruit production technology	<ul style="list-style-type: none"> To disseminate the technologies of fruit crops To establish technology blocks of released varieties of fruits 	HRC, Stations (20)

FLORICULTURE DIVISION

Varietal Improvement			
663	Collection, evaluation and maintenance of gerbera germplasm	<ul style="list-style-type: none"> Finding out of germplasm in terms of yield and quality Maintaining the genetic purity 	Gazipur

SI No.	Research Title	Objective(s)	Location
664	Collection, evaluation and maintenance of gladiolus	<ul style="list-style-type: none"> Monitoring of vase life and yield parameters Maintaining the genetic purity 	Gazipur and Jessore
665	Collection, evaluation and maintenance of chrysanthemum genotypes	<ul style="list-style-type: none"> Monitoring of vase life and yield parameters Maintaining the genetic purity 	Gazipur, Jessore, and Burirhat
666	Collection, evaluation and maintenance of rose	Finding out the suitable germplasm for cutflower and pot plant	Gazipur Jessore
667	Collection, evaluation and maintenance of ornamental cucurbits	<ul style="list-style-type: none"> To evaluate the performance of different species of ornamental cucurbits To conserve the collected germplasm for future research 	Gazipur Burirhat, and Thakurgaon
668	Collection, evaluation and maintenance of lily	<ul style="list-style-type: none"> Monitoring of vase life and yield parameters Finding out of germplasm in terms of yield and quality 	Gazipur
669	Collection, evaluation and maintenance of lilium	<ul style="list-style-type: none"> To collect the different species of lilium available in Bangladesh To conserve the collected germplasm for future research 	Gazipur
670	Collection and maintenance of water lily flowers	<ul style="list-style-type: none"> To collect the different species of water lily flowers available in Bangladesh To conserve the collected germplasm for future research 	Gazipur
671	Collection, evaluation and maintenance of orchids	<ul style="list-style-type: none"> Finding out the suitable germplasm for cut flower and pot plant Monitoring of vase life and yield parameters Maintaining the genetic purity 	Gazipur
672	Studies on the yield performance of aster genotypes	<ul style="list-style-type: none"> Observing the performance of advanced lines Finding out of germplasm in terms of yield and quality 	Gazipur, Jessore, and Burirhat
673	Collection, evaluation and maintenance of tulip	<ul style="list-style-type: none"> To collect the different species of tulip To conserve the collected germplasm for future research 	Gazipur and Burirhat
674	Collection and maintenance of ornamental plant	<ul style="list-style-type: none"> Monitoring of shading and non shading loving Finding out of germplasm in terms of yield and quality Maintaining the genetic purity 	Gazipur and Jessore
675	Collection and conservation of wild flower germplasm	<ul style="list-style-type: none"> To collect the different species of wild flower To conserve the collected germplasm for future research 	Gazipur and Jessore
676	Collection, characterization and conservation of medicinal plants	<ul style="list-style-type: none"> To collect, characterize and determine chemical composition of medicinal plants To conserve the collected germplasm for future research 	Gazipur Burirhat, and Jessore

SI No.	Research Title	Objective(s)	Location
677	Phenotypic variability in tuberose (<i>Polianthes tuberosa</i> L.) genotypes	To characterize the tuberose germplasm in respect of their morphological variation, growth, yield and post harvest life	Gazipur
678	Hybridization of lilies	To create variability	Gazipur, and Jessore
679	Hybridization of adenum	To create variability	Gazipur, and Jessore
680	Hybridization of china rose	To create variability	Gazipur
681	Induction of variability through gamma radiation in gladiolus	<ul style="list-style-type: none"> Ascertaining appropriate variation caused by gamma radiation Studying the radio sensitivity of several genotypes of gladiolus 	Mymensingh (BINA) and Gazipur (BARI)
682	Induction of variability through gamma radiation in tuberose	<ul style="list-style-type: none"> To ascertain the appropriate variation caused by gamma radiation To increase the yield of tuberose flower and bulb 	Mymensingh (BINA) and Gazipur (BARI)
Propagation			
683	Effect of planting materials on growth, flowering and bulb production of liliun	To find out the suitable planting materials for Liliun production	Gazipur
684	Influence of different concentration of auxin on propagation of BARI Orchid-1	To find out the suitable concentration of auxin as to propagate BARI Orchid-1	Gazipur
Cultural Management			
685	Performance of promising gladiolus genotypes for cut flower	<ul style="list-style-type: none"> Finding out of superior genotype(s) suitable for cut flower Monitoring of vase life and yield parameters Observing disease and insect reaction 	Gazipur
686	Effect of sub strates on the growth and yield of anthurium, dracaena and caladium	<ul style="list-style-type: none"> To find out the suitable substrate (s) for Anthurium, Dracaena and Caladium To produce the quality foliage 	Gazipur
687	Effect of varieties and disbudding on the quality cut flower production in chrysanthemum	<ul style="list-style-type: none"> To find out the suitable varieties for Chrysanthemum cut flower production To ascertain the optimum number of blooms per plant for Chrysanthemum cut flower production 	Gazipur
688	Effect of varieties and light intensity for enhancing quality aloevera production	<ul style="list-style-type: none"> To find out suitable varieties for production of quality foliage To determine appropriate light intensity for better vegetative growth 	Gazipur
689	Cultivation of gerbera varieties under protective condition	To produce the quality flower year round	Gazipur
690	Effect of pre-planting cold treatment of corms on the emergence, growth and flowering of gladiolus	To break down dormancy and flowering of gladiolus	Gazipur

SI No.	Research Title	Objective(s)	Location
691	Production of sansevaria as influenced by different substrates	<ul style="list-style-type: none"> To find out the suitable combination of growing media on growth of Sansevaria To observe the performance of foliage production 	Gazipur
692	Effect of varieties and planting materials on growth, flowering and bulb production in tuberose	To find out the suitable planting materials for specific tuberose genotype for growth, flowering and bulb production of tuberose	Gazipur
Physiological Studies			
693	Effect of growth regulators on dormancy breaking of corms and subsequent yield of gladiolus	<ul style="list-style-type: none"> To find out the optimum concentration of suitable growth regulators To break the dormancy and higher yield of gladiolus 	Gazipur
694	Effect of growth regulators on growth, yield and vase life of tuberose	<ul style="list-style-type: none"> To find out the optimum concentration of suitable growth regulators To obtain higher yield and vase life of tuberose 	Gazipur
695	Effect of different GA ₃ concentration and frequency on growth, flowering and yield in button flower	To find out the best concentration of GA ₃ and frequency on higher yield and quality in button flower	Gazipur
696	Foliar application of GA ₃ on growth and flowering of standard chrysanthemum	<ul style="list-style-type: none"> To find out the optimum concentration of GA₃ on growth and flower quality of chrysanthemum and To standardize the optimum frequencies of GA₃ application in chrysanthemum flower production 	Gazipur
Disease Management			
697	Effect of organic amendments on soil borne diseases of gerbera	To find out the suitable organic amendment in controlling soil borne diseases of Gerbera	Gazipur and Jessore
698	Influence of organic amendments and bio-control agent on the production of quality flower and corm production in gladiolus	<ul style="list-style-type: none"> Standardization the nutrient for better growth and yield Reducing disease and insect reaction Increasing shelf life 	Gazipur
Insect Pest Management			
699	Bio-rational management of boll worm attacking rose	<ul style="list-style-type: none"> To develop an environment friendly management option for rose boll worm To document the pest status of rose boll worm 	Jessore and Savar
Post Harvest Management			
700	Influence of varieties and chemicals on vase life of gerbera cut flower	<ul style="list-style-type: none"> Determining the influence of chemicals on the longevity of gerbera Selecting the suitable varieties for longer vase life of gerbera 	Gazipur

SI No.	Research Title	Objective(s)	Location
701	Assessment of post-harvest losses and improvement of post-harvest practices of cut flowers in selected areas of Bangladesh	<ul style="list-style-type: none"> To know the existing post harvest practices and losses of cut flowers To improve the post-harvest practices of cut flowers To reduce the post harvest losses of cut flowers 	Jessore Khustia, and Gazipur
702	Effect of 1-Methyl cyclopropene on the vase life and quality of gladiolus	<ul style="list-style-type: none"> Extending the post-harvest life of gladiolus flower Maintaining better quality and Determining the optimal 1-MCP concentration and time duration 	
Hydroponic Culture			
703	Standardization of electric conductivity (EC) on nutrient uptake, growth and yield of gerbera flower	Finding out the optimum Electrical Conductivity (EC) for gerbera flowering	Gazipur
Interior Decoration			
704	Evaluation of different decoration and arrangement procedures of ikebana	Developing best arranging of ikebana and to find out of best container for interior decoration	Gazipur
Breeder's Seed / Propagule Production			
705	Breeders propagule production of flower crops	<ul style="list-style-type: none"> Producing breeder propagules of different flower crops for distribution among the growers and nurserymen. Maintain genetic purity 	Gazipur
Technology Transfer			
706	Training on flower technology	Floriculture Division, HRC, BARI has developed numerous improved technologies for flower production, seed/propagule production, hydroponic culture, post harvest technologies including the development of improved varieties. The training program has been designed to train scientists, SA, SAAO and farmers	Gazipur, Jessore, Pahartali, Bogra, Burirhat, Rangpur, Rajshahi

PULSES RESEARCH CENTRE, ISHURDI, PABNA

Varietal Improvement			
Blackgram			
707	Hybridization of Blackgram	Creation of genetic variations	Ishurdi
707	Generation Advancement in Blackgram	Generation Advancement and selection of desired genotypes	Ishurdi
708	Observation Trial of Blackgram	Selection of genotypes for Multilocation Trial	Ishurdi
709	RYT of Blackgram	To observe GXE interaction	Ishurdi, Jessore, Madaripur, Barind, Gazipur, Jamalpur

SI No.	Research Title	Objective(s)	Location
710	Field Screening for adaptability of Blackgram in HBT	Evaluation of genotypes at HBT condition	Barind, Rajshahi
Lentil			
711	Hybridization of Lentil	Creation of genetic variations	Ishurdi
712	Generation Advancement in Lentil	Generation Advancement and selection of desired genotypes	Ishurdi
713	Observation Trial of Lentil	Selection of genotypes for Multilocation Trial	Ishurdi
714	PYT of Lentil	To study the G X E interaction	Ishurdi, Jessore, Madaripur, Gazipur
715	PVS of Lentil	To obtain the farmers' opinion	Ishurdi, Jessore, Madaripur, Barishal, Gazipur, Jamalpur
716	Regional Adaptive Trials of lentil in SAARC Member countries	Evaluation of exotic genotypes under native condition	Ishurdi
717	Evaluation of lentil germplasm collected from West Bengal (through ICARDA)	Evaluation of WB materials under Bangladesh condition	Ishurdi
718	International Trials (4)	Evaluation of ICARDA materials in Bangladesh condition for various purpose	Ishurdi
719	Assessment of genetic diversity of lentil in Bangladesh using morphological and molecular markers	Estimation of genetic diversity within lentil and finding the relationship among germplasm	Gazipur
720	Screening of lentil germplasm under relay condition	Evaluation of lentil genotypes in relay condition	Ishurdi
721	Evaluation of early lentil germplasm under different row orientation	Evaluation of promising early lines under closer spacing	Ishurdi
Pea			
722	Hybridization of Pea	Creation of genetic variations	Ishurdi
723	Confirmation of F1 in Pea	Selection of confirmed F1s	Ishurdi
724	PVS of pea (Short duration)	To obtain the farmers' opinion	Ishurdi, Jessore, Faridpur, Natore
725	PVS of pea (long duration)	To obtain the farmers' opinion	Ishurdi, Jessore, Faridpur, Natore

SI No.	Research Title	Objective(s)	Location
726	Evaluation of pea genotypes	Evaluation of existing pea germplasm	Ishurdi
727	Screening of pea germplasm against soil water logging	To observe the effect of excess moisture on germination and growth responses of pea germplasm	Ishurdi
Chickpea			
728	Hybridization of chickpea	Creation of genetic variations	Ishurdi
729	Generation Advancement in chickpea	Generation Advancement and selection of desired genotypes	Ishurdi
730	Observation Trial of chickpea	Selection of genotypes for Multilocation Trial	Ishurdi
731	PYT of chickpea (set-1 and set-2)	To study the GXE interaction	Ishurdi, Jessore, Madaripur, Gazipur
732	RYT of chickpea	To evaluate the stability of selected genotypes	Ishurdi, Jessore, Madaripur, Gazipur, Barind, Barishal
733	PVS of chickpea	To obtain the farmers' opinion	Ishurdi, Jessore, Madaripur, Gazipur, Barind, Barishal
Grasspea			
734	Screening of grasspea germplasm against salinity	To observe the effect of salinity on germination and growth responses of grasspea germplasm	Ishurdi
735	Collection and evaluation of local grasspea germplasm	To enrich the genetic base of grasspea gene pool	Satkhira, Patuakhali, sirajgonj, Khulna, Madaripur, Jessore
736	PYT of grasspea	To study the G X E interaction	Ishurdi, Satkhira, Madaripur, Patuakhali
737	Screening of grasspea germplasm under relay condition	Evaluation of grasspea genotypes in relay condition	Ishurdi
Cowpea			
738	Collection and evaluation of local cowpea germplasm	To enrich the genetic base of cowpea gene pool	Patuakhali, Feni, Barisal and Chittagong
739	Screening of cowpea germplasm against salinity stress	To observe the effect of salinity on germination and growth responses of cowpea germplasm	Ishurdi

SI No.	Research Title	Objective(s)	Location
Mungbean			
740	Hybridization of Mungbean	Creation of genetic variations	Ishurdi
741	Generation Advancement in Mungbean	Generation Advancement and selection of desired genotypes	Ishurdi
742	Observation Trial of Mungbean	Selection of genotypes for Multilocation Trial	Ishurdi
743	PYT of Mungbean	To study the G X E interaction	Ishurdi, Jessore, Madaripur, and Gazipur
744	RYT of Mungbean	To evaluate the stability of selected genotypes	Ishurdi, Jessore, Madaripur, Gazipur, Moulovibazar and Barishal
745	International Trial (AVRDC)	Evaluation of AVRDC materials in Bangladesh condition for various purpose	Ishurdi, Jessore, and Gazipur
746	Genetic mapping of quantitative trait loci for synchronous pod maturity of mungbean	To identify quantitative trait loci controlling early maturity	Gazipur
Crop and Soil Management			
747	Dynamics of biotic constraints of pulse crop under conservation agriculture systems in Bangladesh	To determine the influence of tillage and residue retention on weed communities, disease and pest	Ishurdi
748	Performance of different Khesari (<i>Lathyrus sativus</i> L.) cultivars under relaying with t.aman rice	To find out the suitable cultivars of khesari for increasing production by the resource-poor farmers under relay condition	Ishurdi
749	Performance of short duration lentil line under different seeding rates with different sowing method	To find out the optimum seed rate and sowing method for short duration lentil lines for better crop growth and yield	Ishurdi, and Gazipur
750	Effect of Selenium(Se) on arsenic uptake in lentil under arsenic prone area at Ishurdi	To find out the effect of Selenium(Se) on arsenic uptake in lentil under arsenic prone area	Ishurdi
751	Effect of different levels of Phosphorus on growth yield and BOAA content of Lathyrus under different moisture level	To find out the effect of phosphorus with moisture level on growth, yield and BOAA content of lathyrus	Ishurdi, and Gazipur

SI No.	Research Title	Objective(s)	Location
752	Efficacy of herbicides on weed control in mungbean cultivation in Kharif-I season	To find the suitable herbicides for controlling weed in mungbean cultivation	Ishurdi, and Gazipur
753	Adaptation of cowpea genotypes in costal and Chittagonj region	To find out the suitable genotypes for better adaptation and higher yield of cowpea	Ishurdi, and Gazipur
754	Screened of advanced Grasspea Genotypes / Lines in Saline Soil	To evaluate the performance genotypes/lines under saline soil	Satkhira
755	Up scaling of pea as vegetable crop in the T. aman rice – pea –boro pattern under upland condition	To increase farmers income through the utilization of fallow land within the window of two rice	Jessore, Jhenaidah, and Kushtia
756	Up scaling of lentil as relay cropping in the farmers field	To establish relay cropping of lentil as a potential technology	Pabna, Natore, Kushtia, Faridpur, Barisal, and Patuakhali
757	Up scaling of relay cropping of pea with T. aman rice	To increase area of pea as relay cropping for grain/ green pod in the T.aman rice	Pabna, Kushtia, Faridpur, Barisal, Patuakhali, and Jamalpur
758	Improving nutrient management through Lentil-Mungbean-T. aus-T. aman cropping sequence for sustaining soil fertility and productivity	To evaluate the suitable fertilization management through nutrient budget that will maintain sustainable soil fertility and productivity	Gazipur, Madaripur, Ishurdi, and Jessore
759	Influence of different levels of potassium on nodulation, quality, yield and nutrients uptake of lentil	To find out the suitable dose of K for nodulation, quality and yield maximization of lentil	Gazipur, and Jessore
760	Effect of different levels of potassium on nodulation, quality, yield and nutrient uptake of mungbean	To find out the effective dose of K for nodulation, quality and yield maximization of mungbean	Gazipur, and Jessore
761	Effect of zinc and boron on yield and yield contributing characters of fieldpea in calcareous and terrace soils of Bangladesh	To evaluate the effect of Zn and B on yield and yield components of fieldpea	Gazipur, Madaripur, and Jessore
762	Response of lentil to micronutrients application	To find out the effective doses of micronutrients (Zn, B and Mo) for lentil yield maximization in calcareous and terrace soils of Bangladesh	Gazipur, Madaripur, and Jessore

SI No.	Research Title	Objective(s)	Location
763	Response of mungbean to micronutrients application	To find out the effective doses of micronutrients (Zn, B and Mo) for mungbean yield maximization in calcareous and terrace soils of Bangladesh	Gazipur, Madaripur, and Jessore
764	Effect of N P K S Zn B on yield and yield contributing characters of cowpea	To find the optimum dose of nutrients for cowpea	Madaripur
765	Integrated nutrient management of Lentil (<i>Lens culinaris</i> Medik.)	To study the growth and yield Parameter of Lentil with organic and inorganic fertilization	Gazipur
766	Comparative economic performance of pulse based cropping patterns with farmer's pattern	Comparative economic profitability of pulses based cropping patterns with the farmers' existing cropping patterns	Madaripur
767	Performance of lentil and mustard as a mixed crop in different ratio of mustard in calcareous and terrace soils of Bangladesh	To identify the appropriate ratio of mustard with lentil for growing as a mixed crop in Bangladesh	Madaripur, and Gazipur
768	Improvement of alternative Pattern T.aman-Mustard-Mungbean-T. aus against farmers existing pattern Boro-Fallow-Local aman in calcareous soil of Madaripur region	To find out the better economically profitability of the alternate cropping pattern with compare to farmer's pattern	Madaripur
769	Relaying Grasspea at different seed rate with T.aman in the Southern region	To find out optimum seed rate of relaying grasspea with T.aman	Madaripur
770	Growth and yield of chickpea varieties as affected by late sowing condition in calcareous soil	To identify the chickpea variety, which could be grown late sowing condition	Madaripur
771	Screening of short duration bio-fortified lentil genotypes for T.Aman-Lentil - Boro rice cropping pattern as relay cropping	To select bio-fortified short lentil genotypes	Ishurdi
772	Production packages of short duration lentil of T.Aman rice -lentil -Boro rice cropping pattern as relay cropping	To develop the complete production technology for short duration lentil under T.aman rice - lentil - Boro rice cropping pattern	Ishurdi
Crop Protection			
773	Screening of lentil lines against stemphylium blight under inoculated condition	To find out the resistant sources against stemphylium blight of lentil	Madaripur, and Ishurdi
774	Fungicidal Management of Stemphylium blight of Lentil	To find out the most effective fungicides in controlling Stemphylium blight of lentil	Ishurdi Madaripur

SI No.	Research Title	Objective(s)	Location
775	Screening of Chickpea germplasms against Botrytis Gray Mold (BGM) under inoculated condition	To find out the resistant sources against Botrytis Gray Mold (BGM) of Chickpea	Ishurdi, and Madaripur
776	Efficacy of Fungicides in Controlling BGM of Chickpea	To find out the most effective fungicides in controlling BGM of chickpea	Madaripur, and Ishurdi
777	Screening of Mungbean lines Resistant to Mungbean Yellow Mosaic Virus and CLS	To find out the resistant source against MYMV and CLS of Mungbean	Madaripur, and Ishurdi
778	Screening of High Yielding Mungbean Germplasms Resistant to Mungbean Yellow Mosaic Virus and CLS	To find out high yielding resistant source against MYMV and CLS of Mungbean	Madaripur, and Ishurdi
779	Evaluation of High Yielding Advanced lines of Mungbean Resistant to MYMV and CLS	To evaluate the high yielding resistant source against MYMV and CLS of Mungbean	Madaripur, and Ishurdi
780	Evaluation of Advanced lines of Mungbean Resistant to MYMV and CLS	To find out high yielding adaptive advanced line of Mungbean	Madaripur, and Ishurdi
781	Effect of weeding on the incidence of flower thrips and pod borers of mungbean (<i>Vigna radiata</i> L.)	Finding out the influence of weed as a harbor of insect pests of summer mungbean	Ishurdi
OILSEED RESEARCH CENTRE, GAZIPUR			
Varietal Improvement			
Rapeseed - mustard			
782	Collection of rapeseed-mustard germplasm	To enrich and widen the genetic base of the gene pool of Oliferous <i>Brassica rapa</i> , <i>B. juncea</i> and <i>B. napus</i>	Home, & Abroad
783	Evaluation and maintenance of germplasm of <i>Brassica rapa</i> , <i>Brassica juncea</i> and <i>Brassica napus</i>	<ul style="list-style-type: none"> To evaluate and maintain the existing germplasm of oliferous <i>Brassica rapa</i>, <i>B. juncea</i> and <i>B. napus</i> To use in future breeding programme 	Gazipur
784	Development of convergent crosses in <i>Brassica rapa</i>	<ul style="list-style-type: none"> To create genetic variability To accumulate favorable genes from several parents into a single cross 	Gazipur
785	Development of BC2S2 in <i>Brassica rapa</i>	<ul style="list-style-type: none"> To create genetic variation To incorporate short duration gene into high yielding varieties 	Gazipur
786	Development of short duration inbred lines in <i>Brassica rapa</i> Advancing S5 to S6 generation	To develop short duration inbred lines having desirable agronomic traits	Gazipur

SI No.	Research Title	Objective(s)	Location
787	Evaluation of segregating generation of <i>Brassica rapa</i> (F2, F5 and F6 generation)	<ul style="list-style-type: none"> To advance generation To select short duration plants/families having desirable traits 	Gazipur and Ishurdi
788	Gene pyramiding of 16 genotypes of <i>B. rapa</i> into a single parent	<ul style="list-style-type: none"> To create genetic variability To accumulate favorable genes from 6 parents into a single parents 	Gazipur
789	Observation Trial of <i>Brassica rapa</i> (Set-I & Set-II)	To select short duration genotypes with better agronomic traits	Gazipur
790	Preliminary Yield Trial of <i>Brassica rapa</i> (Set-I and II)	To select short duration genotypes with better agronomic traits Location: Gazipur (Set-I & II), Ishurdi (Set-II), Jessore (Set-II), Rahmathpur (Set-I), Comilla (Set-I)	
791	Regional Yield Trial of <i>Brassica rapa</i> (Set-I & Set-II)	<ul style="list-style-type: none"> To select short duration high yielding lines with better agronomic traits and wider adaptability To develop short duration variety to fit in between T. aman and Boro rice Location: Set-I: Gazipur, Ishurdi, Jamalpur, Jessore, Rahmatpur and Hathazari Set-II: Gazipur, Ishurdi and Jessore	
792	Hybridization in <i>Brassica napus</i>	To incorporate earliness in <i>B. napus</i> existing genotypes	Jamalpur
793	Confirmation of F1 population of <i>Brassica napus</i>	To confirm F1 and to advance F2 generation	Jamalpur
794	Growing of segregating population (F2 –F6) of <i>Brassica napus</i>	To obtain F3-F6 population and to advance F2-F6 generation	Jamalpur
795	Observation Yield trial of <i>Brassica napus</i>	To select high yield potential lines with early maturity those can be grown in between T.Aman and Boro rice	Jamalpur
796	Preliminary Yield trial of <i>Brassica napus</i>	To select high yield potential lines with early maturity those can be grown in between T.Aman and Boro rice	Jamalpur and Gazipur
797	Regional Yield trial of <i>Brassica napus</i>	To select high yield potential lines with early maturity those can be grown in between T. Aman and Boro rice	Jamalpur, Gazipur, Ishurdi, Jessore and Hathazari
798	Development of convergent crosses in <i>Brassica juncea</i>	<ul style="list-style-type: none"> To create genetic variability To accumulate favorable genes from several parents into a single cross 	Ishurdi
799	Evaluation of segregating generation of <i>Brassica juncea</i> (F6 generation - Set-I & Set-II)	To select plant families having desirable traits	Gazipur

SI No.	Research Title	Objective(s)	Location
800	Observation Trial of <i>Brassica juncea</i>	<ul style="list-style-type: none"> To select genotypes with high yield potential and better agronomic traits To develop high yielding variety of <i>B. juncea</i>. 	Gazipur
801	Preliminary Yield Trial of <i>Brassica juncea</i>	<ul style="list-style-type: none"> To select genotypes with high yield potential and better agronomic traits. To develop high yielding variety of <i>B. juncea</i> 	Gazipur, Ishurdi, Jessore and Hathazari
802	Regional Yield Trial of <i>Brassica juncea</i>	<ul style="list-style-type: none"> To select lines with high yield potential, better agronomic traits and wider adaptability To develop high yielding variety of <i>B. juncea</i> 	Gazipur, Ishurdi, Jamalpur, Jessore, Rahmatpur and Hathazari
803	Growing of back cross generation of interspecific crosses among <i>B. carinata</i> , <i>B. rapa</i> and <i>B. napus</i>	<ul style="list-style-type: none"> To create genetic variability. To find out genotypes suitable for cultivation in Bangladesh 	Gazipur
804	Seed increase of advanced and stress tolerant lines of <i>Brassica</i> spp	<ul style="list-style-type: none"> To increase seed of advanced and stress tolerant lines of <i>Brassica</i> spp. To use seed in adaptive trials 	Gazipur
805	Development of hybrid variety in rapeseed I. Identification of parental lines in <i>B. rapa</i> and <i>B. napus</i> II. Development of short duration parental lines for short duration hybrids III. Introgression of Ogura CMS into <i>B. napus</i> lines IV. Evaluation and development of test cross hybrids	<ul style="list-style-type: none"> To identify parental lines (CMS, restorer and maintainer) To develop short duration parental lines To develop CMS lines through introgression of ogura CMS into <i>B. napus</i> lines To evaluate and develop test cross hybrids 	Gazipur
806	Identification of early restorer genes for hybrid production in <i>Brassica napus</i>	To develop suitable early restorer from restorer lines collected from abroad	Gazipur
807	Maintenance of CMS, restorer and maintainer lines of <i>Brassica napus</i>	<ul style="list-style-type: none"> To maintain the male sterile and maintainer lines To use in future breeding programme 	Gazipur
808	Development of double low short duration genotypes through interspecific hybridization	To develop double low short duration genotypes through crossing between <i>Brassica rapa</i> and <i>Brassica napus</i>	Gazipur
809	Preliminary yield trial of double low genotypes of <i>Brassica napus</i>	<ul style="list-style-type: none"> To observe the performance of double low genotypes in Bangladesh condition To determine the amount of erucic acid and glucosinolate of the genotypes 	Gazipur

SI No.	Research Title	Objective(s)	Location
810	Maintenance of double low genotypes of Brassica napus	<ul style="list-style-type: none"> To maintain the double low genotypes To determine the amount of fatty acid composition and glucosinolate of the genotypes 	Gazipur
Sesame			
811	Collection and evaluation of sesame germplasm	<ul style="list-style-type: none"> To enrich and widen the genetic base of the gene pool of sesame To evaluate the collected germplasm 	Home, and Abroad, Gazipur
812	Maintenance of germplasm of sesame	To maintain the collected germplasm	Gazipur and Ishurdi
813	Hybridization in sesame	<ul style="list-style-type: none"> To create genetic variation To find out desirable genotypes 	Gazipur
814	Evaluation of segregating generation of sesame (F ₄ and F ₆)	<ul style="list-style-type: none"> To advance generation To select desirable genotypes 	Gazipur
815	Observation trial of sesame	<ul style="list-style-type: none"> To observe the performance of lines To select lines with desired characters 	Gazipur
816	Preliminary yield trial of sesame	<ul style="list-style-type: none"> To observe the performance of lines To select lines with desired characters over locations 	Gazipur, Hathazari, Ishurdi and Jessore
817	Regional yield trial of sesame (Set-I)	<ul style="list-style-type: none"> To observe the performance of lines To select lines with desired agronomic characters and wider adaptability 	Gazipur, Jamalpur, Ishurdi, Jessore, Hathazari and Rahmatpur
818	Regional yield trial of sesame (Set-II)	<ul style="list-style-type: none"> To observe the performance of lines and To select lines with desired agronomic characters and wider adaptability having white seed coat colour 	Gazipur, Jamalpur, Ishurdi, Jessore, Hathazari and Rahmatpur
819	Screening of genotypes for development of white seeded variety of sesame	<ul style="list-style-type: none"> To screen out white seed coated genotypes To select disease tolerant genotypes with desirable agronomic traits 	Gazipur
820	Seed increase of advanced lines of sesame	<ul style="list-style-type: none"> To meet up the seed requirement for RYT of the next year To meet up the seed requirement adaptive trial of the next year 	Gazipur, Ishurdi and Jessore
821	Observation trial of sesame genotypes under water logged condition	<ul style="list-style-type: none"> To select water logged tolerant genotypes To develop water logged tolerant sesame variety 	Gazipur
Groundnut			
822	Collection and evaluation of groundnut germplasm	<ul style="list-style-type: none"> Collect germplasm to enrich the gene pool of groundnut To evaluate the collected germplasm to use in the future breeding program 	Home and Abroad, Gazipur, Jamalpur

SI No.	Research Title	Objective(s)	Location
823	Maintenance of groundnut germplasm	<ul style="list-style-type: none"> To maintain the existing germplasm. To select of different accessions for future reeding program 	Gazipur
824	Hybridization in groundnut	<ul style="list-style-type: none"> To create genetic variability To develop short duration and bold seeded variety of Groundnut 	Gazipur (Set-1) and Jamalpur (Set-11)
825	Evaluation of segregating generation of groundnut (Growing F1 , F2 F4, and F6)	<ul style="list-style-type: none"> To advance generation To select short duration plants having desirable traits 	Gazipur and Jamalpur
826	Observation trial of groundnut (Set-I and II)	<ul style="list-style-type: none"> To select high yielding and early maturing variety To select disease resistance lines with desirable agronomic traits 	Gazipur (Set- I) and Jamalpur (Set II)
827	Preliminary yield trial of groundnut (Set-I and II)	<ul style="list-style-type: none"> To select high yielding and early maturing variety To select disease resistance lines with desirable agronomic traits 	Gazipur, Ishurdi and Burirhat (Set-1) Jamalpur, Jessore and Burirhat (Set-11)
828	Regional yield trial of Groundnut (Set-I)	Selected entries of Groundnut from preliminary yield trial & ICRISAT trial will be evaluated	Jamalpur, Gazipur and Burirhat
829	Regional yield trial of Groundnut (Set-II)	<ul style="list-style-type: none"> To select high yielding and early maturing variety To select disease resistance lines with desirable agronomic traits 	Gazipur, Jamalpur, Ishurdi, Jessore, Rahmatpur and Hathazari
830	Seed increase of BARI released varieties and advanced lines of groundnut	<ul style="list-style-type: none"> To meet up the seed requirement for RYT To supply the seed for adaptive trial 	Jamalpur (Char area)
831	Screening of groundnut lines at char area of Jamuna river	Different lines of groundnut will be evaluated at the char area to select area specific variety	Char area of Jamalpur
Soybean			
832	Collection of soybean germplasm	To enrich the gene pool of soybean	Germplasms from abroad.
833	Maintenance of soybean germplasm	To maintain and evaluate the germplasm of soybean	Gazipur
834	Observation Trial of Soybean	To select high yielding genotypes for the next yield trial	Gazipur
835	Regional yield trial of Soybean	To select the high yielding genotypes	Gazipur, Noakhali and Chittagong
Sunflower			
836	Collection of sunflower germplasm	To enrich the gene pool of sunflower and to evaluate the new germplasm to use for future breedingprogram	Abroad

SI No.	Research Title	Objective(s)	Location
837	Maintenance and evaluation of germplasm of sunflower	<ul style="list-style-type: none"> To maintain and evaluate the germplasm of sunflower Selection of different accessions for future breeding program 	Gazipur
838	Development of dwarf inbred lines in sunflower i) Advancing S1 to S2 ii) Advancing S5 to S6	To develop dwarf Inbred lines	Gazipur
839	Regional Yield Trial of Sunflower	<ul style="list-style-type: none"> To select high yielding dwarf genotypes with desirable agronomic traits To develop dwarf variety 	Gazipur, Jessore, Ishurdi and Rahmatpur
840	Identification of parental lines for development of hybrid variety in sunflower	To identify parental lines (CMS, restorer and maintainer) of sunflower	Gazipur
Linseed			
841	Maintenance of linseed germplasm	To maintain the collected germplasm	Gazipur
Niger			
842	Maintenance of niger germplasm	To maintain the collected germplasm	Gazipur
Safflower			
843	Maintenance of safflower germplasm	To evaluate the collected germplasm	Gazipur
Adaptive Trials			
844	Adaptive trial of advanced lines of rapeseed	<ul style="list-style-type: none"> To evaluate the performance of advanced lines of rapeseed in the farmers field To develop high yielding variety of rapeseed 	Pabna, Comilla, Netrakona, Gopalganj
845	Adaptive trial of advanced lines of sesame	<ul style="list-style-type: none"> To evaluate the performance of advanced lines of sesame in the farmers field at different locations of Bangladesh To develop high yielding variety of sesame 	Faridpur, Kustia, Khulna, Patuakhali, Gopalganj
Crop Management			
846	Performance of selected mustard genotypes under salinity condition in saline area	To select salt tolerant mustard genotypes under salinity condition	Benerpotha, Satkhira
847	Validation of Mustard–Sesame-T. aman cropping pattern in farmers field of Barind area	To increase productivity and thereby income generation to the farmers	Rajshahi
848	Screening of mustard and rapeseed genotypes against higher salinity level	To select appropriate rapeseed- mustard genotypes under sever salinity condition	Gazipur

SI No.	Research Title	Objective(s)	Location
849	Effect of different type of mustard variety in mustard-Boro rice mixed cropping system.	To identify the suitable mustard variety in mixed mustard-rice cropping system	Comilla
850	Performance of selected mustard genotypes under salinity condition in pot culture	To select salt tolerant mustard genotypes under salinity condition	Gazipur
851	Intercropping of black cumin with groundnut	To identify the suitable row arrangement of black cumin with groundnut for higher productivity and profit	Gazipur
852	Performance of sesame varieties in Barind tract areas	To select suitable variety of sesame for Barind areas	Bogra, Joypurhat, Rajshahi
853	Screening of sesame genotypes under water logging at vegetative and flowering stage	<ul style="list-style-type: none"> To evaluate performance of selected sesame genotype(s) under water logging at vegetative stage and flowering stage To select waterlogged tolerant sesame genotype 	Gazipur
854	Four crop-based cropping pattern studies for increasing cropping intensity and productivity	<ul style="list-style-type: none"> Increase cropping intensity and productivity through crop intensification in rice based cropping system Increase farmer's income, access to food and nutrition, employment opportunity and livelihood improvement 	Gazipur
855	Effect of water stress on growth, yield and oil content of groundnut.	<ul style="list-style-type: none"> To identify the critical growth stage of groundnut varieties/ genotypes to water stress To evaluate the yield and oil content loss assessment at different growth stages due to water stress 	Gazipur
856	Effect of storage conditions on the seed quality of groundnut stored in different containers	<ul style="list-style-type: none"> To find out suitable seed containers for groundnut seed storage To assess the quality of groundnut seed under different storage conditions 	Gazipur
857	Performance of selected genotypes of soybean under salinity in pot culture	<ul style="list-style-type: none"> To find out the better genotype tolerant to salinity To examine the intraspecific variation of salt tolerance in selected soybean genotypes 	Gazipur
858	Performance of selected groundnut genotypes in charland areas	To select suitable genotypes of groundnut for charland	Jamalpur, and Gopalganj
859	Screening of soybean varieties/ advanced lines against drought stress.	To find out drought tolerant varieties/advanced lines/genotypes of soybean	Gazipur and Noakhali
860	Performance of sunflower varieties under different management practices	To find out the suitable management practice for higher yield of sunflower varieties	Gazipur and Sathkhira

SI No.	Research Title	Objective(s)	Location
Disease Management			
861	Survey and monitoring of oilseed crop diseases	<ul style="list-style-type: none"> To assess existing disease status of the oil crops To identify the new diseases of the oil crops 	Oil crop growing areas
862	Screening of rapeseed-mustard varieties/lines against alternaria leaf blight disease.	<ul style="list-style-type: none"> To find out the resistant source (s) against alternaria leaf blight disease of mustard To develop resistant variety 	Gazipur
863	Screening of rapeseed-mustard varieties/lines against Orobanch	<ul style="list-style-type: none"> To find out the resistant source(s) against Orobanch To develop resistant variety 	Ishurdi
864	Evaluation of rapeseed-mustard varieties/lines against club root disease	To find out the resistant source(s) against club root disease of mustard	Gazipur
865	Evaluation of fungicides against white mould of mustard.	<ul style="list-style-type: none"> To find out effective fungicides in controlling white mould of mustard Increase seed yield of mustard 	Rangpur (OFRD) and Ishurdi
866	Integrated management of alternaria blight of Rapeseed-mustard.	<ul style="list-style-type: none"> To test effectiveness of seed treatment before sowing and foliar spray with fungicides against alternaria blight To development effective control measures against alternaria blight of mustard To reduce disease severity and increase yield 	Gazipur
867	Development of disease resistant, LEA (low erucic acid) quality BARI Sarisha-14 through marker-assisted backcrossing	To introgression disease resistance and LEA quality in BARI sarisha-14	Gazipur
868	Evaluation of short duration, disease resistant resynthesized B. napus under Bangladesh environmental condition	To know the crop duration and yield of resynthesized (RS) B. napus	Gazipur
869	Evaluation for sclerotinia stem rot resistance in rapeseed-mustard germplasm using cotyledon assay method	To know the resistance level in Rapeseed-mustard germplasm	Gazipur
870	Screening of groundnut lines against leaf spot and rust diseases	<ul style="list-style-type: none"> To find out the resistant lines against leaf spot and rust diseases To develop resistant variety 	Gazipur
871	Study on the environmental factor and growth stage for the development of tikka, rust disease and foot rot of groundnut	<ul style="list-style-type: none"> To identify the susceptible stage of growth for infection of Tikka, rust and foot rot disease of groundnut To determine the relationship of weather factor for incidence and severity of Tikka, rust and foot rot disease of groundnut 	Gazipur

SI No.	Research Title	Objective(s)	Location
Disease management of Sesame			
872	Germplasm evaluation of sesame against leaf spot and stem rot diseases	<ul style="list-style-type: none"> To find out the resistant sources against major diseases To develop resistant variety 	Gazipur
873	Evaluation of sesame varieties/lines against stem rot disease under inoculated condition	To find out the resistant genotypes against stem rot disease	Gazipur
874	Efficacy of fungicides in controlling stem rot disease of sesame	<ul style="list-style-type: none"> To identify the effective chemical (s) against the disease Increase seed yield through fungicidal spray 	Gazipur, Gazipur and Jessore
875	Evaluation of different management practices in controlling stem rot of Sesame	<ul style="list-style-type: none"> To find out effective management options in controlling stem rot of sesame To compare the effect of fungicides and botanical against the disease 	Gazipur
Disease management of Sunflower			
876	Evaluation of fungicides and botanicals against leaf blight of sunflower	<ul style="list-style-type: none"> To find out the effect of fungicides and botanicals against leaf blight of sunflower To reduce disease severity and to increase yield 	Gazipur
Disease management of Soybean			
877	Screening of soybean genotypes for resistance to soybean yellow mosaic virus	To find out resistant / tolerant genotype or line(s)	Gazipur
Insect Pest Management			
878	Role of honeybee pollination on the yield and yield contributing characteristics of mustard	To assess / quantify the yield increase due to visit of honeybee	Manikgonj (Farmer's field)
879	Screening of mustard genotypes against aphid under natural field condition	<ul style="list-style-type: none"> To find out the tolerance genotypes against aphid To observe the infestation time 	Gazipur
880	Development of bio-control based management package against the major insects of soybean	<ul style="list-style-type: none"> To find out the most effective management package against these pests Incidence of the pest 	Gazipur
881	Development of management option against hairy caterpillar in sesame	<ul style="list-style-type: none"> To record the incidence and damage severity of the pest To find out the most effective management technique for managing of the pests 	Gazipur
882	Screening of groundnut genotypes against major insect pests	<ul style="list-style-type: none"> To find out the resistance genotypes against the major pests To find out the incidence of the pests 	Gazipur
Post Harvest and Biochemical Studies			
883	Separation and Identification of total Glucosinolate content in Rapeseed-Mustard varieties	To determine the total and individual glucosinolate contents in mustard-rapeseed seeds and vegetative parts	Gazipur, Central Laboratory (CL), ORC

SI No.	Research Title	Objective(s)	Location
884	Determination of Tocopherol, Sterol and Vitamins in oilseed crops	To determine the tocopherol, sterol and vitamins in oilseed crops	Gazipur, CL (ORC)
885	Low glucosinolate, and erucic acid and high unsaturated fatty acids content in some rapeseed-mustard lines developed in Bangladesh	<ul style="list-style-type: none"> To estimate the fatty acid composition of existing advance lines and varieties of rapeseed To improve seed oil quantity and quality of rapeseed 	Gazipur, CL (ORC),
886	Development of Sesame seeds and oil quality by micronutrient application	<ul style="list-style-type: none"> To assess oil productivity and the content of Omega-6 and Omega-9 fatty acids in response to micronutrients (Zn, Fe and Mn) To improve seed & oil quality of sesame varieties 	Gazipur, CL (ORC), Jessore, and Ishurdi
887	Determination of oil content and fatty acid composition in oil of oilseed varieties and lines	To select the lines/genotypes better oil quality with respect to oil content and fatty acids composition	Gazipur, CL (ORC),
PLANT GENETICE RESEARCH CENTRE, GAZIPUR			
888	Exploration Collection of Plant Genetic Resources for Food and Agriculture (PGRFA)	To enrich PGR collection and minimize genetic erosion Location: Khulna, Satkhira, Faridpur, Dinajpur, Thakurgaon, Sirajganj, Rajshahi, Natore, Bogra, Rangpur, Chapainawabganj, Pabna, Jamalpur, Tangail, Khagrachari, Chittagong, and Comilla	
889	Exploration and collection of Chilli, cucumber and melon	<ul style="list-style-type: none"> To enrich the PGR collection of Chilli, Cucumber and Melon To prepare a photographic monograph of collected PGRs Location: Bandarban, Rangamati, Chittagong, Cox's-bazaar, Rangpur, Joypurhat, Bogra, Pabna, Natore, Rajshahi, Jessore, Jamalpur and Mymensingh	
890	Characterization of Hyacinth bean germplasm	<ul style="list-style-type: none"> To study the genetic diversity in Hyacinth beangermplasm To identify salient features that distinguish germplasm from one another To identify accessions having useful traits. 	Gazipur (PGRC)
891	Characterization of Chilli germplasm	<ul style="list-style-type: none"> To study the genetic diversity in chilli germplasm To identify salient features that distinguish germplasm from one another and To identify germplasm having useful traits 	Gazipur (PGRC)
892	Characterization of Grass pea germplasm	<ul style="list-style-type: none"> To study the genetic diversity in Grass pea germplasm To identify the accessions having useful traits 	Jessore, Ishurdi and Jamalpur
893	Characterization of Chick pea germplasm	<ul style="list-style-type: none"> To study the genetic diversity in chickpea germplasm To identify the accessions having useful traits 	Gazipur (PGRC)
894	Characterization of Okra germplasm	<ul style="list-style-type: none"> To study the genetic diversity in yard long bean germplasm To identify germplasm having useful traits 	Khagrachari

SI No.	Research Title	Objective(s)	Location
895	Characterization of Sweet gourd germplasm	<ul style="list-style-type: none"> To study the genetic diversity in sweet gourd germplasm To identify salient features that distinguish germplasm from one another and To identify germplasm having useful traits 	Gazipur (PGRC)
896	Characterization of Amaranth germplasm	<ul style="list-style-type: none"> To study the genetic diversity in amaranth germplasm To identify distinguishing features of germplasm and To identify germplasm having useful traits. 	Gazipur (PGRC)
897	Characterization of Sesame germplasm	<ul style="list-style-type: none"> To study the genetic diversity in sorghum germplasm To identify salient features that distinguish germplasm from one another and To identify germplasm having useful traits 	Gazipur (PGRC)
898	Characterization of Cucumber germplasm	<ul style="list-style-type: none"> To study the genetic diversity in horse gram germplasm To identify salient features that distinguish germplasm from one another and To identify germplasm having useful traits. 	Gazipur (PGRC)
899	Characterization of Melon germplasm	<ul style="list-style-type: none"> To study the genetic diversity in melon germplasm To identify salient features that distinguish germplasm from one another and To identify germplasm having useful traits 	Gazipur (PGRC)
900	Characterization of Bitter gourd germplasm	<ul style="list-style-type: none"> To study the genetic diversity in sweet gourd germplasm To identify salient features that distinguish germplasm from one another and To identify germplasm having useful traits 	Gazipur (PGRC)
901	Evaluation of Mungbean Genotypes under Salt Stress	<ul style="list-style-type: none"> To identify the tolerant germplasm under different salt level To study some physiological activities among salt tolerant and susceptible accession To identify the most contributing traits in salt tolerance index 	Gazipur, (PGRC)
902	Molecular characterization of Chilli germplasm	To estimate genetic variations at molecular level and analyze the diversity and genetic relationship among the germplasm	Molecular Biology Laboratory, PGRC, Gazipur
903	Molecular characterization of Melon germplasm	To estimate genetic variations at molecular level and analyze the diversity and genetic relationship among the germplasm	MBL (PGRC), Gazipur
904	Molecular characterization of rapeseed-mustard germplasm using SSR marker	<ul style="list-style-type: none"> To characterize and identify the genetic variation of mustard germplasm using SSR marker To examine the level of genetic diversity within accession 	MBL (PGRC), Gazipur

SI No.	Research Title	Objective(s)	Location
905	Molecular characterization of Mango germplasm	<ul style="list-style-type: none"> To develop unique DNA profile for variety/accession identification To estimate genetic diversity To evaluate genetic variation and establish genetic relationship among the accessions 	MBL (PGRC), Gazipur
906	Conservation of germplasm in active and base collection	To retain viability of collected regenerated and characterized seed of different crop for longer period and for future use	Gazipur (PGRC)
907	Monitoring of active and Base Collection	<ul style="list-style-type: none"> To study the viability of conserved seed To monitor the germplasm/accession for future use 	Gazipur (PGRC)
908	Distribution of germplasm	<ul style="list-style-type: none"> To exploit the germplasm for crop improvement To distribute the accession of different crops to the user 	Gazipur (PGRC)
909	Regeneration of newly collected germplasm of different crops	<ul style="list-style-type: none"> To regenerate the seeds of newly collected germplasm To regenerate the seeds for characterization and distribution 	Gazipur (PGRC)
910	Regeneration of conserved accessions of different crops	To increase the viability of the conserved accessions	Gazipur (PGRC)
911	Maintenance and development of field genebank	To maintain existing germplasm of vegetatively propagated crops in field genebank	Gazipur, Rahmatpur, Binodpur, Jaintiapur, and Khagrachari
912	<i>In vitro</i> conservation of vegetatively propagated crops	To conserve the vegetatively propagated crops for <i>in vitro</i> condition	<i>In Vitro</i> Conservation Laboratory, PGRC, Gazipur
913	Database development for germplasm documentation	<ul style="list-style-type: none"> To develop a database software for information system To document information on collection, characterization, conservation, utilization and exchange of germplasm 	Documentation Laboratory, PGRC, Gazipur
SPICE RESEARCH CENTRE, SHIBGONJ, BOGRA			
914	Maintenance breeding of onion and chilli	<ul style="list-style-type: none"> To maintain the varietal purity To increase the breeder seed production with quality aspect 	Bogra (SRC) Magura, Gazipur, (RSRC) Lalmonirhat and Faridpur
915	Evaluation of collected germplasm of onion	<ul style="list-style-type: none"> Evaluation of the performance of germplasm Selection of the promising one(s) 	Bogra
916	Study of genetic variability in onion	<ul style="list-style-type: none"> To create genetic variability To study combining ability 	Bogra

SI No.	Research Title	Objective(s)	Location
917	Evaluation and selection of poly-crossed F ₁ onion	<ul style="list-style-type: none"> To identify superior cross products from poly crossing of seven germplasm To select superior lines for further study 	Gazipur
918	Seed production of poly cross F ₂ population of onion	To create homogeneity and selection of better lines from polycross onion population	Gazipur
919	Performance of onion varieties in char land	<ul style="list-style-type: none"> To evaluate the performance of onion varieties at different charland To popularize onion variety at different charland among the farmers To promote their adoption 	Jamalpur, Sariakandi and Gaibandha
920	Screening of onion varieties/advanced lines against salinity	<ul style="list-style-type: none"> To test a number of varieties/ lines against different levels of salinity To identify saline tolerant onion line/ variety 	Bogra
921	Development of onion line tolerant to thrips	<ul style="list-style-type: none"> To develop onion thrips tolerant line To increase the onion yield 	Bogra
922	Development of thin necked and longer shelf-life onion variety	<ul style="list-style-type: none"> To increase the shelf-life of onion To modify thick neck to thin neck 	Bogra and Gazipur
923	Purification and improvement of BARI Piaz-1 & BARI Piaz-4	<ul style="list-style-type: none"> To create variation in onion genotypes To develop breeding line (s) of onion 	Faridpur
924	Regional yield trial of garlic lines	To study the regional adaptability of the selected garlic lines	Bogra, Lalmonirhat, Magura, Gazipur, Thakurgaon, and Comilla
925	Evaluation of collected germplasm of garlic	<ul style="list-style-type: none"> To collect and conserve garlic germplasm from different areas of Bangladesh To select superior germplasm for further study 	Gazipur
926	Plantlets developing garlic through tissue culture	<ul style="list-style-type: none"> To develop a suitable regeneration protocol for garlic To find out suitable growth regulators for callus induction and shoot-root development of garlic 	Bogra
927	Determination of quantities of Alliin & Allicin in BARI varieties of garlic	<ul style="list-style-type: none"> To determine the active ingredients in garlic extracts To establish optimized method in liquid chromatography for quantitative evaluation 	Gazipur
928	Collection, evaluation and characterization of chilli germplasm	<ul style="list-style-type: none"> To collect indigenous and exotic germplasm of chilli To characterize the germplasm based on their morphological characters To identify the best line(s) with high yield and other desirable characters To identify the lines as annual or perennial 	Gazipur

SI No.	Research Title	Objective(s)	Location
929	Screening of Chilli Cultivars for Spice Industry	<ul style="list-style-type: none"> The overall aim of this research is to better understand pre- and post-harvest factors affecting dry pod yield, colour, pungency, flavor & aroma and others quality parameters of Chilli for the selected cultivars in order to develop suitable procedures for growing, harvesting and post-harvest handling for the Chilli spice industry To screen out suitable cultivars for commercially for improved dehydration techniques for preparation of chilli powder for its use in spices Industry 	Bogra
930	Collection and evaluation of naga chilli germplasm	<ul style="list-style-type: none"> To select suitable line(s) for commercial cultivation Performance study of different lines giving same input 	Jaintiapur
931	Development of year round chilli variety through pure line selection	<ul style="list-style-type: none"> To develop a year round chilli variety To evaluate the line in different times of the year 	Faridpur, Gazipur and Bogra
932	Observation trial on flower drop off behavior in chilli lines	<ul style="list-style-type: none"> To study the flower dropping habit of different chilli lines To identify less or non-flower dropping chilli line 	Gazipur
933	Evaluation of different chilli line (s) for rainy season	<ul style="list-style-type: none"> To evaluate the yield and yield attributes of different chilli line (s) grown in rainy season To identify the best line (s) for rainy season 	Faridpur, and Gazipur
934	Estimation of capsaicin and ascorbic acid in different chilli germplasm	<ul style="list-style-type: none"> To estimate capsaicin content in different chilli germplasm To estimate ascorbic acid in different chilli germplasm 	Gazipur
935	Molecular profiling of chilli germplasm (indigenous and exotic) by using SSR markers	<ul style="list-style-type: none"> To find out genetic variation and diversity of chilli germplasm To determine inter and intra species diversities which help to improve chilli through breedingprogram 	Gazipur
936	Regional yield trial of summer chilli	To study the regional adaptability of the selected summer chilli lines	Gazipur, Bogra, Magura, Lalmonirhat, Faridpur and Comilla
937	Determination of Capsaicin in BARI varieties of chilli	To identify the major and minor capsaicinoids in the hot chilli samples by using GC-MS	Gazipur
938	Collection and evaluation of winter chilli germplasm at char land	<ul style="list-style-type: none"> To screen out winter chilli lines suitable for char areas To find out the chilli yield at char areas 	Bogra

SI No.	Research Title	Objective(s)	Location
939	Collection and evaluation of perennial chilli germplasm	<ul style="list-style-type: none"> To evaluate the growth and yield performance of perennial chilli To find out the best cultivar(s) for homestead (Ekti bari ekti khamar) and farmer's field 	Bogra and Gazipur
940	Advance yield trial of promising ginger lines	<ul style="list-style-type: none"> To select the promising one for releasing a variety Release as HYV variety 	Bogra
941	Induced mutagenesis on ginger for improved yield components	<ul style="list-style-type: none"> To create genetic variability in ginger To improve yield components in ginger 	Gazipur
942	Analysis of Gingerol and Shogaol in cv. BARI Ginger-1	To study the qualitative and quantitative analysis of 6-gingerol in BARI Ada-1	Gazipur
943	Characterization of turmeric germplasm	<ul style="list-style-type: none"> To find out the suitable genotype for higher yield with better quality and tolerant to common pest and diseases To identify the individual germplasm To document and their effective gene bank management To provide a clear cut marker of genetically diverse gene pool, from where a plant breeder will mold new variety 	Bogra
944	Characterization of advance line and variety of turmeric	To find out the suitable genotype for higher yield with better quality and tolerant to common pest and diseases	Bogra and Gazipur
945	Collection and evaluation of coriander germplasm	<ul style="list-style-type: none"> To evaluate the germplasm collected from different sources To identify the best line/lines with high yield and other desirable characters 	Bogra
946	Evaluation of coriander germplasm for year round variety	<ul style="list-style-type: none"> To develop coriander leaf variety To identify the best line/lines with high leaf yield and other desirable characters 	Bogra
947	On farm verification trial of coriander at char land	<ul style="list-style-type: none"> To study the performance of coriander variety in char land To popularize coriander variety at char 	Char land of Jamuna, Bogra, Jamalpur and Gaibandha
948	Collection and evaluation of fenugreek germplasm	<ul style="list-style-type: none"> To evaluate the germplasm collected from different sources To identify the best line/lines with high yield and other desirable characters 	Bogra
949	On farm verification trial of fenugreek at char land	<ul style="list-style-type: none"> To study the performance of fenugreek variety in char land To popularize fenugreek variety at char 	Char land of Jamuna, Bogra, Jamalpur and Gaibandha
950	Collection and evaluation of black cumin germplasm	<ul style="list-style-type: none"> To evaluate the germplasm collected from different sources To identify the best line/lines with high yield and other desirable characters 	Bogra

SI No.	Research Title	Objective(s)	Location
951	On farm verification trial of Black cumin at char land	<ul style="list-style-type: none"> To study the performance of black cumin variety in char land To popularize black cumin variety at char 	Char land of Jamuna, Bogra, Jamalpur and Gaibandha
952	Collection and evaluation of fennel germplasm	<ul style="list-style-type: none"> To evaluate the germplasm collected from different sources To identify the best line/lines with high yield and other desirable characters 	Bogra
953	Regional Yield trial of Fennel	<ul style="list-style-type: none"> To select the promising one for releasing a variety To evaluate the performance of advance fennel lines at different agro ecological zones 	Bogra, Lalmonirhat, Faridpur, Gazipur, Magura, Pahartali, Hathazari, Comilla, Rajshahi, Patuakhali
954	Evaluation of cumin germplasm	<ul style="list-style-type: none"> To evaluate the germplasm collected from different sources To identify the best line/lines with high yield and other desirable characters adaptable to our agro-climate 	Bogra
955	Preliminary yield trial of two Ajowan Lines	To study the performance of two selected Ajowan lines for selecting the best one	Gazipur, Jaintapur and Bogra
956	Collection and evaluation of celery germplasm	<ul style="list-style-type: none"> To evaluate the performance of different celery germplasm To select the promising one(s) 	Bogra
957	Collection and evaluation of minor spices	<ul style="list-style-type: none"> To evaluate the performance of different celery germplasm To select the promising one(s) 	Gazipur and Bogra
958	Evaluation of Plum line(s)	<ul style="list-style-type: none"> To select suitable line(s) as variety To enrich gene pool 	Jaintapur
959	Collection and evaluation of bay leaf germplasm	<ul style="list-style-type: none"> To develop new variety with higher yield potentiality To preserve the various germplasm of bay leaf at SRC 	Bogra & Jaintapur
960	Evaluation of Cinnamon (<i>Cinnamomum verum</i>) germplasm	<ul style="list-style-type: none"> To characterize the germplasm based on their morphological characters To identify the best line(s) with high yield and other desirable character 	Gaziopur
961	Characterization and evaluation of some betel leaf germplasm	<ul style="list-style-type: none"> To evaluate the germplasm collected from different sources To characterize materials based on various morphological studies To identify the best line/lines with high yield and other desirable characters 	Bogra
962	Intercropping of ground nut with summer onion	To find out the suitable planting time and planting arrangement of the component crops for higher yield and economic return	Lalmonirhat

SI No.	Research Title	Objective(s)	Location
963	Effect of herbicides and time of spraying for weed control in summer onion	<ul style="list-style-type: none"> To identify the suitable herbicides for weed control To find out the optimum time of spraying for controlling weeds 	Bogra
964	Effect of planting method on onion bulb production	To identify effective planting method for higher bulb yield of onion	Faridpur
965	Field Performance of Power Tiller operated Bed planter for Garlic planting	<ul style="list-style-type: none"> To evaluate the machine performance for garlic production To compare the yield performance with that of conventional method 	Bogra
966	Effect of mulching thickness on growth, development, yield and quality of garlic under different tillage system	To study the effects of tillage and different thickness of mulches on the growth, development, quality and yield of garlic	SRSC, Lalmonirhat
967	Study on seed quality of chilli in relation to fruit flashing in mother plant	To evaluate the effects of fruit flashing in mother plant for quality seed production of chilli	Bogra
968	Effect of stages of harvest and post-harvest ripening period on seed quality in naga chilli	<ul style="list-style-type: none"> To identify the right stage for harvesting naga chilli To find out suitable post harvest ripening period for good quality seeds in naga chilli 	Bogra, Jaintapur (CRC)
969	Effect of spacing on the yield of Naga Chilli	To select the proper spacing for better growth and yield of Naga chilli	Jaintapur, Sylhet
970	Effect of rhizome weight on the yield of ginger	<ul style="list-style-type: none"> To produce healthy planting materials To reduce seed rhizome quantity and seed cost 	Gazipur
971	Effect of growing media on rhizome yield of ginger	<ul style="list-style-type: none"> To identify suitable growing media for seed rhizome production of ginger To produce disease free healthy seed rhizome 	Bogra
972	Effect of chemical treatment on seed germination of coriander	To find out the best growth regulator for increasing the coriander seed germination of year round leaf production	Bogra
973	Effect of shade on year round leaf production of coriander	To know the shade effect on year round leaf production of coriander	Bogra
974	Effect of sowing method on year round leaf production of coriander	To find out the appropriate sowing method for year round leaf production of coriander	Bogra
975	Effect of plant spacing and N fertilizer on year round coriander leaf production	<ul style="list-style-type: none"> To identify optimum plant spacing for higher yield of coriander leaf production To determine the N fertilizer dose for coriander leaf production 	Bogra
976	Effect of container material and growing media for year round coriander leaf production	<ul style="list-style-type: none"> To identify suitable container material for year round coriander leaf production To identify suitable growth media for coriander leaf production To supply fresh leaf for household consumption 	Bogra

SI No.	Research Title	Objective(s)	Location
977	Effect of sowing time and plant spacing on cumin seed production	<ul style="list-style-type: none"> To find out the optimum sowing time of cumin To find out the optimum plant spacing of cumin for maximizing seed yield 	Bogra
978	Effect of time and method of plum grafting	To find out the best graft combination for successful propagation of BARI Alubokhara-1	Gazipur
979	Effect of IBA concentration on success of Plum air layering	<ul style="list-style-type: none"> To know the effect of IBA on success of Alubokhara layering To maximize success of Alubokhara layering 	Gazipur
980	Seedling emergence and survival in bay leaf (<i>Cinnamomum tamala</i>) under varying micro-habitat conditions	To find out suitable seedling emergence technique and survival of bay leaf	Bogra
981	Study on multiplication techniques of bay leaf (<i>Cinnamomum tamala</i>)	To find out suitable multiplication technique of bay leaf	Bogra
982	Effects of planting time and nitrogen on the bolting, yield and quality of onion	<ul style="list-style-type: none"> To find out the optimum transplanting time on the bolting, higher yield and quality of onion bulb To determine proper dose of nitrogen on the bolting, higher yield and quality of onion bulb 	Lalmonirhat
983	Effect of N P K and S on the yield of Naga Chilli	To select the proper NPKS fertilizer dose for better growth and yield of Naga chilli	Jaintapur
984	Nutrient management for aromatic ginger (<i>Kaempferia galangal</i>)	<ul style="list-style-type: none"> To evaluate the response of aromatic ginger to chemical fertilizer To find out the optimum dose of NPKS package 	Gazipur and Magura
985	Effect of integrated nutrient management on growth and seed yield of fenugreek	<ul style="list-style-type: none"> To evaluate the yield responses of Fenugreek to INM - based treatments To assess the nutrient uptake pattern and protein content and determine the changes in the soil nutrient balance sheet through INM-based treatments 	Bogra
986	Effect of irrigation and nitrogen fertilizer on the yield and yield components of fennel	<ul style="list-style-type: none"> To develop irrigation schedule for higher yield of fennel To rationalize the N fertilizer rate under the available water supply To find out the critical growth stage of irrigation 	Bogra
987	Effect of N P K and S on the yield of dill	To standardized the fertilizer dose of dill	Bogra
988	Effect of N fertilizer and irrigation on mint production	<ul style="list-style-type: none"> To determine the N fertilizer dose for mint production To find out the irrigation schedule of mint production 	Bogra

SI No.	Research Title	Objective(s)	Location
989	Effect of straw mulching and reduced-risk pesticides on thrips and iris yellow spot virus on onion	<ul style="list-style-type: none"> To quantify the effects of straw mulching and reduced-risk pesticides in managing thrips and iris yellow spot virus on onion To find out the cost effective management options against thrips and iris yellow spot virus on onion 	Bogra
990	Development of management techniques against thrips(<i>Thrips tabaci</i>) in onion	To develop the suitable management option in controlling onion thrips	Gazipur
991	Development of integrated pest management package against umbel borer, <i>Helicoverpa sp.</i> infestation of onion	<ul style="list-style-type: none"> To find out an environment friendly management approach against umbel borer in onion To find out the cost effective management options against umbel borer in onion 	Bogra
992	Population dynamics and chemical control of thrips in garlic	<ul style="list-style-type: none"> To study the population dynamics of onion thrips To find out the cost effective management options against onion thrips 	Bogra
993	Evaluation of garlic germplasm against thrips (<i>Thrips tabaci</i>)	To identify the promising material (s) resistance to thrips	Bogra
994	Effect of intercropping on incidence of mite and thrips on chilli	<ul style="list-style-type: none"> To evaluate the effectiveness of intercropping Carrot, Onion, Tomato and Coriander with Chilli for management of mite and thrips in Chilli To find out the cost effective management options against mite and thrips in chilli 	Bogra
995	Development of eco-friendly pest management practices for leaf curl complex of chilli	<ul style="list-style-type: none"> To develop eco-friendly management practices for sustainable production of chilli To find out the cost effective management options against leaf curl complex of chilli 	Bogra
996	Survey and documentation of major insect pests of Ginger and turmeric	<ul style="list-style-type: none"> To document the major insect pests attacking ginger and turmeric and their damage severity To identify the natural enemies of ginger and turmeric insect pests 	Gazipur
997	Management of leaf gall in bay leaf (<i>Cinnamomum tamala</i>)	<ul style="list-style-type: none"> To develop suitable control measure against gall forming insect of bayleaf Increase quality and yield of bayleaf 	Bogra
998	Effect of fungicides in controlling basal rot of onion	To find out the suitable control measures in controlling basal or bulb rot of Onion	Bogra
999	Study on the post harvest diseases in onion	To identify the causal organism of post harvest diseases in onion	Gazipur
1000	Efficacy of new fungicides in controlling purple blotch of onion	To test the effectiveness of available new fungicides against purple blotch of onion	Gazipur
1001	Screening of garlic lines for resistance to stemphylium blight disease	To find out resistant/tolerant source of garlic for developing a new resistant variety against leaf blight	Bogra

SI No.	Research Title	Objective(s)	Location
1002	Effect of fungicide (s) in controlling stemphylium blight disease of garlic	To find out the effective fungicide(s) for controlling leaf blight of garlic	Bogra
1003	Screening of chili lines against <i>Fusarium</i> wilt disease	To find out resistant sources of chilli for developing a new lines / variety against <i>Fusarium</i> wilt disease	Bogra
1004	Development of management option (s) against rhizome rot of ginger	To find out the suitable management option(s) against rhizome rot of ginger	Gazipur
1005	Screening of ginger lines/variety against rhizome rot	To find out the resistant /tolerant lines/variety against rhizome rot disease of ginger.	Bogra
1006	Efficacy of fungicide (s) in controlling leaf spot of turmeric	To find out the effective fungicide (s) in controlling leaf spot of turmeric Proper control of turmeric leaf spot disease	Gazipur
1007	Survey and monitoring of diseases of coriander, dill, fenugreek and black cumin	To identify new diseases as well as recording of existing disease status of dill, fenugreek, coriander and black cumin	Bogra
1008	Management of foot and root rot disease of fenugreek	To find out the suitable control measures in controlling foot and root rot disease of Fenugreek	Bogra
1009	Effect of fungicide (s) in controlling alternaria leaf and umbel blight of fennel	To find out the effective fungicides in controlling alternaria leaf and umbel blight disease of Fennel	Bogra
1010	Effect of fungicide (s) in controlling alternaria blight/blossom blight of cumin	To find out the effective fungicide (s) in controlling alternaria blight/blossom blight of cumin	Bogra
1011	Studies on epidemiology of leaf spot and grey leaf spot diseases of bayleaf	To investigate the epidemiology aspects of leaf spot and grey leaf spot disease of bayleaf	Bogra
1012	Disease management of root/foot rot and vine rot of Betel leaf	To find out an appropriate control measure for managing of root/foot rot and vine rot of betel vine/betel leaf	Bogra
1013	Effect of plant growth regulator on storage duration of summer onion	<ul style="list-style-type: none"> To observe the effect of growth regulator on storage duration To observe the yield performance as influence by growth regulator 	Magura
1014	Effect of maturity indices and curing time on yield and shelf life of summer onion	<ul style="list-style-type: none"> To find out the effect of curing time on quality and yield of onion To find out the suitable maturity indices for quality and yield of onion 	Lalmonirhat
1015	Development of value added shelf stable food products from garlic	To developed different food products from garlic	Bogra
1016	Osmotic dehydration of Green chilli	<ul style="list-style-type: none"> To determine drying kinetics of green chilli using osmotic dehydration and To optimize process parameter to obtained high quality dried products 	Bogra

SI No.	Research Title	Objective(s)	Location
1017	Determination of aflatoxin B ₁ , B ₂ & G ₁ , G ₂ levels, pesticide residues and microbiological Status in Powder red chilli	<ul style="list-style-type: none"> To assess the aflatoxin B₁, B₂ & G₁, G₂ levels To assess the Pesticide Residues To determine the microbiological status 	Bogra,
1018	Effect of different pretreatment techniques on quality attributes of dehydrated green chilli powder	<ul style="list-style-type: none"> To prepare green chilli powder and to study the physico-chemical characteristics of green chillies To standardize the low cost processing technique for preparation of green chilli powder To study the effect of different pretreatments to prevent browning and quality attributes in green chilli powder 	Bogra
1019	Effect of seed extraction method on the seed quality of chilli	<ul style="list-style-type: none"> To identify suitable seed extraction method of chilli To assess the effect of seed extraction method on the seed quality of chilli 	Bogra
1020	Adoption of solar tunnel dryer for drying of chilli in farmers' field in Bogra	<ul style="list-style-type: none"> To fabricate of a solar tunnel dryer suitable for drying of chilli To test the dryer for drying of chilli at farmer's field To compare the dryer performance and quality of the dried chilli with traditional farmers practice 	Bogra (SRC and farmers field)
1021	Efficacy of different seed drying and storage method on quality of chilli seed and its effect on chilli production	<ul style="list-style-type: none"> To find out the efficacy of different seed drying methods on quality of chilli seed To find out the efficacy of different seed storage methods on quality of chilli seed To find out the suitable seed drying and storage method for chilli seed production 	Gazipur
1022	Optimization of post-harvest practices on preservation of plum	<ul style="list-style-type: none"> To find out the better post harvest management of plum To ensure preservation of plum keeping quality and color 	Gazipur
1023	Study on Production and Price Relationship for Chilli in Bangladesh	<ul style="list-style-type: none"> To study the fluctuation of price, area, production and yield of chilli To determine the relationship between the prices and production amount of chilli 	Chilli growing areas in Bangladesh (Secondary data collected from BBS)
AGRONOMY DIVISION			
Crop management			
1024	Growth and yield of hybrid maize in <i>Kharif-1</i> season as influenced by fertilizer management	<ul style="list-style-type: none"> To find out economic fertilizer dose for hybrid maize in Kharif-1 season To increase production and economic return 	Gazipur, Burirhat and Hathazari
1025	Effect of seedling age on grain yield of hybrid	<ul style="list-style-type: none"> To find out the proper seedling age for transplanting hybrid maize under different 	Rahmatpur

SI No.	Research Title	Objective(s)	Location
	maize under different tillage conditions in southern region of Bangladesh	tillage conditions • To reduce the turn-around period through transplanting maize in maize-based cropping systems in southern region of Bangladesh • To sustain the yield and economic return of maize through its planting in proper time	
1026	Effect of different tillage and fertilization method on Maize	• To evaluate effect of tillage on growth and yield of maize • To evaluate effect of fertilization method on growth of maize	Jessore
1027	Performance of short duration pulses as fodder in between T.aman and Boro rice	• To find out the most suitable fodder pulse crop/s in terms of increased dry matter production and nutrition • To increase the fallow land utilization and crop diversity	Rahmatpur, and Gournadi, Barisal
1028	Growth and yield of sweet corn as influenced by spacing and fertilizer management	• To find out suitable spacing and fertilizer dose for BARI Sweet corn-1 • To increase production and economic return	Gazipur, Burirhat and Jamalpur
1029	Growth and yield of BARI Khoibhutta-1 as influenced by spacing and fertilizer management	• To find out suitable spacing and economic fertilizer dose for BARI kaibhutta-1 • To increase production and economic return	Gazipur, Burirhat & Rahmatpur
1030	Effect of twig removing on growth and yield of garden pea	To find out the optimum time and length of twig for clipping for maximum pod and vegetable yield	Gazipur and Jessore
1031	Effect of foliar application of N, Zn and B on growth and yield of tomato	• To find out the effect of N, Zn and B on fruit size and number and yield of tomato • To find out the optimum nutrient concentration for maximum yield of tomato	Gazipur
1032	Performance of hybrid maize varieties in the <i>Rabi</i> season	To find out suitable hybrid maize variety for maximum yield	Gazipur, Jamalpur and Rajbari
1033	Performance of hybrid maize varieties in the <i>Kharif</i> season	To find out suitable hybrid maize variety for maximum yield	Gazipur, Jamalpur and Rajbari
1034	Yield of winter chilli as affected by seedling age and number of seedling per hill	To find out the suitable seedling age and number of seedling / hill for maximum yield of winter chilli	Gazipur, Jamalpur and Barisal
1035	Performance of BARI Hybrid maize-9 as affected by sowing date after potato harvest	To find out appropriate sowing date of BARI Hybrid Maize-9 followed by potato harvest	Gazipur and Burirhat
1036	Effect of sowing date and row spacing of coriander	• To evaluate the proper sowing time and spacing of coriander • To achieve optimum yield of Coriander	Gazipur and Bogra
1037	Phenology, dry matter accumulation and yield of Summer onion in relation to planting time	• To study the plant phenology and dry matter partitioning of summer onion • To find out the optimum planting time of summer onion	Gazipur and Burirhat

SI No.	Research Title	Objective(s)	Location
1038	Effect of seed priming on the growth and yield of BARI lentil varieties	<ul style="list-style-type: none"> To study the effect of seed priming on lentil. To study the effects of micronutrients on the growth and yield of lentil varieties 	Barisal
1039	Effect of irrigation interval on the growth, yield and storability of garlic	<ul style="list-style-type: none"> To find out the appropriate irrigation schedule for optimum growth and yield of garlic To find out subsequent effect of irrigation schedule on storability of garlic 	Gazipur and Ishurdi
1040	Fertilizer management of fodder crops	To find out economic fertilizer dose for fodder crops	Gazipur
1041	Effect of duration of weed competition and weed free on the yield of maize	To find out certified period of crop weed competition	Gazipur
1042	Weed control methods in sesame	To find out the suitable weeding methods for controlling weeds in sesame	Jamalpur and Ishurdi
1043	Effect of herbicides on weed density and yield of lentil (<i>Lens culinaris</i> L.)	To find out the suitable herbicide to control weed in lentil	Ishurdi
1044	Effect of different doses of herbicides for controlling weeds in maize field	<ul style="list-style-type: none"> To find out the optimum dose of herbicide to control weeds in corn field To find out the weed control efficiency of different herbicides 	Gazipur
1045	Weed management in relay pulse crops in southern region of Bangladesh	<ul style="list-style-type: none"> To find out most effective and economic way of weed control in relay crop To investigate weed species and their relative density To evaluate weed control efficiency by different treatments 	Barisal
1046	Effect of herbicides on soil and crop performance of wheat and mungbean	<ul style="list-style-type: none"> To find out the effect of herbicides on soil properties To know the effect of herbicides on crop performance 	Ishurdi
1047	Effect of tillage method and weed management on the yield of hybrid maize	<ul style="list-style-type: none"> To find out the effect of tillage method on the yield of drought tolerant hybrid maize To find out appropriate weed control method in controlling weeds in maize field 	Gazipur
1048	Yield performance of maize under different planting systems in T. Aman-Maize-Mungbean cropping pattern	<ul style="list-style-type: none"> To evaluate effect of planting systems on growth of maize To evaluate yield performance of maize under CA systems 	Jessore
1049	Intercropping of potato with maize under different planting technique in southern region of Bangladesh	<ul style="list-style-type: none"> To develop suitable planting technique for potato with maize intercropping system To increase the total yield and economic return of maize based intercropping system 	Rahmatpur
1050	Intercropping of mungbean with hybrid maize under different	To find out suitable planting system for intercropping of Mungbean with hybrid maize	Rahmatpur

SI No.	Research Title	Objective(s)	Location
	planting systems in southern region of Bangladesh	<ul style="list-style-type: none"> To increase the total yield and economic return of maize based intercropping system 	
1051	Intercropping brinjal with soybean at varying planting system	<ul style="list-style-type: none"> To find out suitable combination of soybean with Brinjal intercropping system for higher productivity To maximize the land utilization and benefit of the growers 	Gazipur
1052	Observation trial on potato–potato/maize/mungbean–T. aman rice cropping pattern under AEZ 3	<ul style="list-style-type: none"> To find out the suitability of the cropping pattern in the region To find out the productivity to increase the production per unit area per unit time 	Burrirhat, Rangpur
1053	Long term effect of maize cultivation on crop productivity and soil health	<ul style="list-style-type: none"> To find out the crop productivity and nutrient uptake of maize To know the soil nutrient balance 	Ishurdi, Pabna
1054	Development of Five crop-based cropping pattern studies for increasing cropping intensity and productivity	<ul style="list-style-type: none"> Increase cropping intensity and productivity through crop intensification in rice based cropping system Sustain food security, poverty reduction, resource management and livelihood improvement of ever increasing populations Increase farmer's income, access to food and nutrition, employment opportunity and woman's participation in agriculture 	Gazipur, Rangpur, Jamalpur, Chittagong, Barisal, Pabna and Jessore
1055	Intercropping lalshak with chilli under different planting system	<ul style="list-style-type: none"> To find out profitable chilli and lalshak combination for getting higher productivity To study the effect of intercropping on component crops 	Gazipur, Khagrachari and Hathazari
1056	Hybrid maize with indian spinach intercropping under different planting systems	<ul style="list-style-type: none"> To find out suitable combination of hybrid maize and indian spinach intercropping system for higher productivity To study the effect of intercropping on component crops 	Gazipur, Hathazari and Rajbari
1057	Intercropping squash with maize under varying planting system	To find out the suitable planting arrangement of squash intercropped with Maize	Gazipur, Hat hazari, Rajbari
1058	Suitability study of different winter vegetable with sweet gourd	To find out the suitable vegetable which performed better intercropped with sweet gourd	Gazipur, Hathazari and Rajbari
1059	Intercropping bush bean with brinjal at varying planting system	<ul style="list-style-type: none"> To find out suitable intercropping system of Brinjal with French bean To maximize the land utilization and benefit of the growers 	Gazipur and Rajbari
1060	Relay mustard with T.aman rice under different management at Ishurdi region	To find out the best management practices for improving yield of mustard in relay with T.aman rice	Ishurdi
1061	Relaying hybrid maize with T.aman rice by different method of sowing	<ul style="list-style-type: none"> To ensure optimum sowing time To reduced cultivation cost 	Ishurdi

SI No.	Research Title	Objective(s)	Location
1062	Intercropping Chickpea with coriander for insect management	To observe the repellent character in chickpea field To find out the suitable planting geometry of coriander and chickpea intercropping	Gazipur
1063	Intercropping coriander with brinjal for insect suppression	<ul style="list-style-type: none"> To minimize the insect population in brinjal and coriander intercropping To find out the degree of suppression in brinjal field 	Gazipur.
1064	Chilli and hybrid maize intercropping under different planting systems	<ul style="list-style-type: none"> To find out suitable combination of chilli and hybrid maize intercropping system for higher productivity To study the effect of intercropping on component crops 	Gazipur and Jessore
1065	Intercropping of sweet gourd with brinjal at different Plant population	<ul style="list-style-type: none"> To find out suitable combination of chilli and hybrid maize intercropping system for higher productivity To study the effect of intercropping on component crops 	Jamalpur
1066	Study on potato sunflower intercropping with relay mungbean	<ul style="list-style-type: none"> To include sunflower as additional crop in potato- mungbean cropping pattern To evaluate shading effect on potato at later growth stage To increase total productivity 	Gazipur and Jamalpur
1067	Study of relay-cropping potato with sweet gourd	<ul style="list-style-type: none"> To find out suitable planting system for higher economic return To increase crop diversity and total productivity 	Gazipur
1068	Intercropping of sweet gourd with brinjal at different Plant Population.	<ul style="list-style-type: none"> To find out the optimum population of Sweet gourd intercropped with Brinjal To maximize the land utilization and economic return 	Jamalpur
1069	Effect of potassium fertilization in saline soil on mungbean growth and yield	<ul style="list-style-type: none"> To find out the effect of potassium fertilization on salt tolerance of mungbean in coastal zone To increase cropping intensity, employment opportunity and to rise the income level of the southern farmers of Bangladesh 	Debhata, Satkhira
1070	Intercropping of chilli and mungbean with sunflower	<ul style="list-style-type: none"> To increase cropping intensity, employment opportunity and to raise the income level of the southern farmers of Bangladesh 	Amtali, Barguna and Debhata, Satkhira
1071	Effect of different mulch materials for salinity management of sweet gourd and bitter gourd in rice based cropping system	<ul style="list-style-type: none"> To minimize soil salinity by reducing evaporation in pits of sweet gourd and bitter gourd fields To increase cropping intensity, employment opportunity and to rise the income level of the southern farmers of Bangladesh 	Debhata, Shatkhira
1072	Effect of different mulch materials for soil water and salinity management	<ul style="list-style-type: none"> To retain soil moisture and minimize soil salinity by reducing evaporation in pits of water melon fields 	Amtali, Barguna

SI No.	Research Title	Objective(s)	Location
	of water melon in rice based cropping system	<ul style="list-style-type: none"> To increase cropping intensity, employment opportunity and to rise the income level of the southern farmers of Bangladesh 	
1073	Effect of water logging at pod developing stage of mungbean genotypes	<ul style="list-style-type: none"> To find out the effect of waterlogging at pod developing stage on seed yield of mungbean To selected suitable variety for coastal area 	Gazipur and Barisal
1074	Agro-economic performance of different vegetable crops on pond based floating bed in Southern of Bangladesh	<ul style="list-style-type: none"> To find out the suitable vegetables crop(s) for cultivation on pond based floating bed in southern region of Bangladesh To increase the production and economic return of vegetables inflooding/submerged areas of southern region To utilize the submerged lands for vegetables cultivation by using the available natural resources (water hyacinth, topapana, dulali lata, aquatic algae etc.) 	Barisal
1075	Performance of different Spices Crops on Floating Bed under Submerged Ecosystem in Southern Region of Bangladesh	<ul style="list-style-type: none"> To maximize the agricultural production and net return from pond based vegetables-cum-fish farming under floating agriculture To utilize the pond in agricultural production efficiently in southern region of Bangladesh 	Barisal
1076	Performance of different potato varieties on water hyacinth made floating bed under submerged ecosystem in southern region	<ul style="list-style-type: none"> To observe the performance of potato under water hyacinth made floating bed condition in southern region To select the suitable variety (s) of potato for floating bed cultivation To bring the flooding/submerged land under potato cultivation 	Barisal
1077	Performance of vegetables under floating agriculture based different production systems in southern region of Bangladesh	<ul style="list-style-type: none"> To observe the performance of potato under water hyacinth made floating bed condition in southern region To select the suitable variety (s) of potato for floating bed cultivation To bring the flooding/submerged land under potato cultivation 	Barisal
1078	Performance of pond based vegetables-cum-fish farming under floating agriculture in southern region of Bangladesh	<ul style="list-style-type: none"> To maximize the agricultural production and net return from pond based vegetables-cum-fish farming under floating agriculture To utilize the pond in agricultural production efficiently in southern region of Bangladesh. 	Barisal
1079	Intercropping of mungbean with chilli at different planting system for coastal area	To increase the productivity and soil health through intercropping for coastal area	Patuakhali and Khulna
1080	Performance of different vegetables and spices	<ul style="list-style-type: none"> To find out the suitable vegetables/spices crop(s) for raising seedlings on water 	Barisal

SI No.	Research Title	Objective(s)	Location
	seedlings on floating bed in southern region of Bangladesh	hyacinth made floating bed <ul style="list-style-type: none"> To observe the seedlings performance of BARI developed modern varieties of vegetables/spices under floating agriculture To utilize the flooding/submerged land for raising of vegetables/spices seedlings in southern region of Bangladesh 	
1081	Survey and monitoring of crops, cropping and innovative practices in the drought prone areas of Bangladesh	<ul style="list-style-type: none"> To find out the existing crops and cropping in the drought prone area To find To identify the innovative technology practiced by the farmers out production technology of existing crops 	Rajshahi, Bogra, Joypurhat and Noagoan
1082	Screening of sesame genotypes against drought at vegetative stage	<ul style="list-style-type: none"> To find out drought tolerant sesame genotype(s) To find out the most susceptible stage to drought 	Gazipur
1083	Effect of K-Nutrition on water stress tolerance of soybean	To find out the dose of K which enable plant to adapt to drought stress more efficiently	Gazipur and Noakhali
1084	Phenology, growth, GDD and yield of lentil varieties	To find out light extinction co-efficient and radiation use efficiency of lentil Selection and development of lentil variety	Gazipur, Ishurdi, Barisal, Jessore and Madaripur
1085	Phenology, growth, GDD and yield of chickpea varieties	<ul style="list-style-type: none"> To find out light extinction co-efficient and radiation use efficiency of chickpea Selection and development of chickpea variety 	Gazipur, Ishurdi, Barisal, Jessore and Madaripur
1086	Effect of sowing date induced temperature and management practices on growth and yield of Garden pea	To test the production efficiency of garden pea with desired quality at delayed sowing	Gazipur and Madaripur
1087	Influence of sowing date induced temperature on flowering and yield of french bean (<i>phaseolus vulgaris</i> L.) varieties	<ul style="list-style-type: none"> To observe the effect of temperature on physiological behavior To find out the suitable variety for higher seed yield 	Gazipur
1088	Performance of different soybean varieties in charland areas under rainfed condition	To find out suitable variety of Soybean for charland area under rainfed condition	Jamalpur and Rangpur char
1089	Fertilizer management of lentil at char land area of Bhuapur, Tangail (AEZ-8)	<ul style="list-style-type: none"> To find out economic fertilizer dose for lentil at the char land of Bhuapur, Tangail To increase production and economic return 	Charland of Bhuapur, Tangail
1090	Survey and monitoring of crops, cropping and innovative practices in the	<ul style="list-style-type: none"> To find out the existing crops and cropping in the chalan bill area To find out production technology of 	Rajshahi, Bogra, Joypurhat and

SI No.	Research Title	Objective(s)	Location
	chalan bill areas of Bangladesh	existing crops • To identify the innovative technology practiced by the farmers	Noagoan
1091	Development of alternate cropping pattern Mustard-Boro-T. aus against Boro-Fallow-Fallow cropping pattern	• To observe productive potential of the pattern • To utilize seasonal and annual fallow lands to boost up crop production • To increase cropping intensity, employ opportunity and income of farmers	Sunamgonj
1092	Development of alternate cropping pattern Potato-Boro-T. aus against Boro-Fallow-Fallow cropping pattern	• To observe productive potential of the pattern • To utilize seasonal and annual fallow lands to boost up crop production • To increase cropping intensity, employ opportunity and income of farmers	Sunamgonj
1093	Development of alternate cropping pattern Boro-T. aus-T. aman against Boro-Fallow-Fallow cropping pattern	• To observe productive potential of the pattern • To utilize seasonal and annual fallow lands to boost up crop production • To increase cropping intensity, employ opportunity and income of farmers	Sunamgonj
1094	Productivity of improved cropping pattern in the Haor areas of Bangladesh	• To observe productive potential of the pattern • To utilize seasonal and annual fallow lands to boost up crop production • To increase cropping intensity, employ opportunity and income of farmers	Sunamgonj
1095	Performance of groundnut varieties in haor areas	• To select groundnut varieties suitable for haor areas of Bangladesh • To popularize new promising varieties in those areas	Kishoregonj, and Sunamgonj
1096	Fertilizer management of lentil in haor areas	• To find out economic fertilizer dose for lentil in haor areas • To popularize new promising variety in those areas	Sylhet (Sunamgonj)
1097	Influence of cover crop (<i>Mimosa invisa</i>) in controlling weed & soil erosion in hilly area	• To find out the effect of <i>Mimosa invisa</i> in controlling weed • To find out the effect of <i>Mimosa invisa</i> in controlling soil erosion	Khagrachari
1098	Intercropping marpha with hybrid maize in hill slope	• To find out suitable combination for higher productivity • To increase the total productivity and economic return	Khagrachari, Ramgarh and Bandarban
1099	Intercropping of leafy vegetables with Okra in hilly areas	• To find out the suitable intercrop combination of these crops • To increase total productivity and economic return	Khagrachari, Ramgarh and Bandarban
1100	Effect of fertilizer packages on yield and yield contributing characters of two hybrid varieties of maize in hill valley	• To find out suitable fertilizer packages for hill valley • To find out effect of fertilizer on maize in hill valley	Khagrachari

SI No.	Research Title	Objective(s)	Location
1101	Effect of fertilizer packages on yield and yield contributing characters of onion in hill valley of Khagrachari	<ul style="list-style-type: none"> To find out the effect of fertilizer on onion production in hilly area To find out suitable doses of fertilizer for higher yield and quality of onion 	Khagrachari
1102	On farm trial of inter mixed cropping garden pea with onion	To validate the developed technology of garden pea with onion inter mixed cropping system in farmer's field	Jamalpur, Sherpur and Pabna
1103	On farm trial of intercropping lalshak with chilli	To validate the standerized lalshak population suitable for intercropping with chilli	Bandarban, Hathazari, Patuakhali and Jamalpur
1104	On farm trial of fertilizer management of hybride maize after potato hervest	To validate the developed fertilizer management of hybride maize after potato hervest in farmers field	Rangpur, Bogra and Jessore
1105	On farm trial of planting technique of potato	To validate the planting technique of potato in farmers' field	Jessore, Rangpur, Jamalpur and Kushtia
1106	On farm trial of potato + sweet corn intercropping systems	To validate the developed potato + sweet corn intercropping systems in farmers' field	Jamalpur, Jessore, Rangpur and Bandarban
1107	On farm trial of intercropping lentil with brinjal at varying planting geometry	To validate the developed lentil with brinjal intercropping in farmers' field	Jessore, Tangil, Mymensingh, Ishurdi and Kustia

PLANT BREEDING DIVISION

Maize			
1108	Collection, maintenance and characterization of local maize germplasm	<ul style="list-style-type: none"> To Characterize of collected germplasm based on morphological and biochemical traits Assessment of variability of the collected germplasm 	Khagrachari, Ramgar & Bandarban hilly areas
1109	Maintenance and characterization of exotic and locally developed maize inbred lines (6 Sets)	To maintain purity of the parental lines for future use	Gazipur (Set I, III & IV), Rahmatpur (Set II), Jessore (Set V) and Ishurdi (Set VI)
1110	Development of base population in maize (2 Sets)	To develop superior broad based source population for the production of desirable elite inbred lines locally	Gazipur

SI No.	Research Title	Objective(s)	Location
1111	Recycling for development of inbred lines of maize(2 Sets)	To extract elite/superior inbred lines of sweet corn locally	Gazipur
1112	Advancing S ₁ to S ₂ generation of field corn and baby corn	To extract superior inbred lines of field and baby corn locally	Gazipur
1113	Advancing S ₂ to S ₃ generation of field corn and pop corn (4 Sets)	To extract superior inbred lines of pop corn and field corn	Gazipur
1114	Advancing S ₃ to S ₄ generation of field corn, sweet corn and pop corn (4 Sets)	To extract superior inbred lines of pop corn, sweet corn and field corn locally	Jessore and Gazipur
1115	Advancing S ₄ to S ₅ generation of field corn (2 Sets)	To extract elite inbred lines of field corn	Gazipur
1116	Advancing S ₅ to S ₆ generation of field corn and pop corn(6 Sets)	To extract superior inbred lines of pop corn and field corn locally	Gazipur
1117	Advancing S ₆ to S ₇ generation of field corn, baby corn and pop corn (8 Sets)	To extract superior inbred line(s)	Gazipur
1118	Study of genetic diversity in maize inbred lines	To select genetically diverse inbred lines for future breeding program	Rahmatpur
1119	Evaluation of inbred lines of field corn through line × tester method (8 Sets)	<ul style="list-style-type: none"> To test the GCA of the inbred lines and SCA of crosses and selection of desirable cross (es) To find out heterotic patterns and heterotic partners of inbred lines 	Gazipur and Rahmatpur
1120	Evaluation of test cross population in Kharif-1 season	<ul style="list-style-type: none"> To test the GCA of the inbred lines and SCA of crosses To find out heterotic patterns and heterotic partners of inbred lines 	Gazipur, Jamalpur, Hathazari and Nasipur (WRC)
1121	Evaluation of popcorn inbred lines through line×testermethod (2 sets)	<ul style="list-style-type: none"> To test the GCA of the inbred lines and SCA of crosses and selection of desirable pop corn hybrids To find out heterotic patterns and heterotic partners of inbred lines 	Gazipur
1122	Study on combining ability and heterosis in maize (6 Sets)	<ul style="list-style-type: none"> To study general combining ability (gca) of parents and specific combining ability (sca) effects of the crosses To estimate standard heterosis and selection of better one(s) 	Gazipur (Set I to V) and Jamalpur (Set VI)
1123	Study on combining ability and heterosis in maize over locations	<ul style="list-style-type: none"> To study general combining ability (gca) of the parents and specific combining ability (sca) effects of the crosses To estimate standard heterosis and to select better one(s) 	Gazipur, Rahmatpur, Jessore, Hathazari & Burirhat

SI No.	Research Title	Objective(s)	Location
1124	Evaluation of single cross field corn hybrids	<ul style="list-style-type: none"> To test the locally developed single cross hybrids To select early, medium tall and high yielding better one(s) 	Gazipur
1125	Evaluation of selected pop corn hybrids at different agro-ecological regions of Bangladesh	To test the performance of locally developed selected pop corn hybrids & and select widely adapted hybrid(s)	Gazipur, Jessore, Rahmatpur, Ishurdi and Jamalpur
1126	Evaluation of promising maize hybrids at different agro-ecological regions of Bangladesh	To test the performance of locally developed single cross hybrids at different agro-ecological regions in Bangladesh and select widely adapted hybrids	Gazipur, Jessore, Jamalpur & Burirhat
1127	Comparative yield trial of imported & local maize hybrids under optimum condition at different agro-ecological regions of Bangladesh	To observe the performance of imported & local hybrids and select better one(s)	Gazipur, Rahmatpur, Jamalpur, Burirhat, Jessore and Hathazari
1128	Adaptive trials for verification of the selected low water required white-grain hybrid maize in High Barind Tract	To verify the performance of locally developed selected promising low water required hybrid maize for Barind areas	Barind areas of Rajshahi
1129	Evaluation of maize hybrids developed by using hilly germplasm in hilly areas	To evaluate early, medium tall & high yielding field corn hybrids developed by using hilly germplasm and select best one(s)	Khagrachari, Ramgarh & Hathazari
1130	Adaptive trials with low water required white grain hybrid maize in hilly areas	To test the performance of locally developed promising low water required hybrid maize & selection of best one(s) for hilly areas	Khagrachari, Ramgarh & Hathazari
1131	Selection criteria, evaluation and associated genomic regions for low Phosphorus (P) stress tolerance in maize	<ul style="list-style-type: none"> Establishing evaluation and phenotyping system for low-P stress tolerance in maize; Identifying maize germplasm for breeding maize cultivars tolerant to low P stress Discovering the genetic basis of low P tolerance in maize Establishing marker-trait association under low-P level 	Gazipur and Burirhat
1132	Association mapping of salinity tolerance in maize at seedling stage	<ul style="list-style-type: none"> Establishing evaluation and phenotyping system for salinity stress tolerance in maize Identifying maize germplasm for breeding maize cultivars tolerant to salinity stress Discovering the genetic basis of salinity tolerance in maize Establishing marker-trait association for salinity 	Gazipur and Satkhira

SI No.	Research Title	Objective(s)	Location
1133	Agrobacterium tumefaciens mediated transformation of zma-miRNA399c on maize	<ul style="list-style-type: none"> To establish embryogenesis protocol To fine tune the transformation protocol for maize To transform of miRNA 399c genes to maize for increasing low- Phosphorus (P) toleranc 	Gazipur & Burirhat
1134	Purification & response of stress inducible enzyme for maize	<ul style="list-style-type: none"> To examine its response in stress conditions in activity level To test expression level in transcriptional level under saline and drought stress 	Molecular Breeding Laboratory, Plant Breeding Division.
1135	Evaluation of excess soil moisture tolerant field corn hybrids (optimum & excess soil moisture condition)	To evaluate early, medium tall and high yielding ESM tolerant hybrids and select best one(s)	Gazipur
1136	Evaluation of excess soil moisture tolerant maize through North Carolina Design II (optimum & excess soil moisture condition)	<ul style="list-style-type: none"> To test the GCA of the inbred lines and SCA of crosses To find out heterotic patterns and heterotic partners of Inbred lines 	Gazipur
1137	Study of combining ability and heterosis in excess soil moisture tolerant maize (optimum and excess soil moisture condition)	<ul style="list-style-type: none"> To study general combining ability (gca) of the parents and specific combining ability (sca) effects of the crosses To estimate standard heterosis and to select better one(s) of excess soil moisture tolerant maize 	Gazipur
1138	Evaluation of promising maize hybrids for saline areas	To evaluate hybrids & select saline tolerant desirable best one(s)	Benarpota, Satkhira
1139	Production of promising experimental hybrids of saline tolerant, excess soil moisture tolerant, drought tolerant and lodging tolerant hybrid maize (5 Sets)	<ul style="list-style-type: none"> To increase hybrid seeds of selected crosses in each set & To observe the performance of the hybrids in different locations 	Gazipur
1140	Phenotyping of the test crosses under heat stress at Jessore and Ishurdi (8 Sets)	<ul style="list-style-type: none"> Development of high-yielding and heat tolerant maize hybrids through managed stress screening To compare the performances of test crosses under optimal and heat stress 	Set I to Set IV : Jessore Set V to Set VIII: Ishurdi
1141	Phenotyping of the test crosses under optimal temperature at Gazipur and Rahmatpur (8 Sets)	<ul style="list-style-type: none"> Develop high-yielding and heat tolerant maize hybrids through managed stress screening To compare the performances of test crosses under optimal and heat stress 	Set I to Set IV : Gazipur Set V to Set VIII: RARS, Rahmatpur
1142	Adaptive trials of selected high yielding heat tolerant	To test the performance of selected promising heat tolerant hybrids	Barind-Rajshahi

SI No.	Research Title	Objective(s)	Location
	HTMA field corn hybrids in High Barind Tracts and other different locations	<ul style="list-style-type: none"> For quick dissemination of the target technology to the farmers 	(3 locations)
1143	Multi location trial of the selected ATMA hybrids under excess soil moisture stress & optimal temperature(2 Sets)	<ul style="list-style-type: none"> To develop high-yielding and stress resilient maize hybrids through managed stress screening To compare the performances of crosses under optimal and stress conditions 	Gazipur and Jessore (optimal temperature); Gazipur and Jessore (excess soil moisture)
1144	Demonstration of selected HTMA hybrids at different agro-ecological regions	To develop high-yielding and heat tolerant maize hybrids	Gazipur, Rahmatpur, Jessore, Ishurdi & Burirhat
1145	Multi location trial of the promising CIMMYT hybrids in different agro-ecological regions	To test the performance of locally developed single cross hybrids at different agro-ecological regions in Bangladesh	Gazipur, Jessore, Ishurdi, Rahmatpur, Burirhat, Jamalpur and Hathazari
1146	Evaluation of CIMMYT advanced QPM hybrid trials	To test the performance of CIMMYT hybrids	Gazipur
1147	Evaluation of CIMMYT acid soil tolerant tropical hybrid maize trials (2 Sets)	To test the performance of CIMMYT hybrids in hilly areas of Bangladesh experiencing from low pH (Acid Soil)	Set I : Khagrachari Set II: Akbarpur
1148	Evaluation of quality protein maize (QPM) hybrids	To evaluate early, medium tall and high yielding hybrids and select best one(s)	Gazipur
1149	Quantification of lysine and tryptophan in quality protein maize (QPM) grain	To estimate the Lysine and Tryptophan in newly developed QPM inbreds and hybrids	Molecular Breeding Lab, Gazipur
1150	Production of single cross maize hybrids through diallel mating design (4 Sets)	<ul style="list-style-type: none"> To estimate GCA of the inbreds & SCA of the cross combinations To determine heterotic effect of the crosses and select best one(s) 	Gazipur
1151	Production of single cross maize hybrid through line \times tester method (5 Sets)	<ul style="list-style-type: none"> To estimate GCA of the inbred lines and SCA of the crosses To determine heterotic effect of the crosses & select best one(s) 	Jessore (Set I & II), Gazipur (Set III & V), Rahmatpur (Set IV)
1152	Production of hybrid maize through line \times tester method in isolation	<ul style="list-style-type: none"> To produce large scale test cross hybrids in isolation for evaluation of inbred lines To find out heterotic patterns and partners of inbred lines 	Gazipur, Jessore, Ishurdi, Burirhat, Dinajpur, and Bogra
1153	Production of maize hybrids through North Carolina Design II fashion	<ul style="list-style-type: none"> To produce large scale test cross hybrids in isolation for evaluation of inbred lines To find out heterotic patterns and partners of inbred lines 	Gazipur

SI No.	Research Title	Objective(s)	Location
1154	Production of selected hybrids of field corn, pop corn, baby corn, QPM, drought and excess soil moisture tolerant maize (7 Sets)	<ul style="list-style-type: none"> To increase hybrid seeds of selected crosses in each set & To observe the performance of the hybrids in different locations 	Gazipur (Set I-IV, VI & VII); and Ishurdi (Set V)
1155	Production of promising modified single cross hybrids in pop corn	To develop selected modified single cross hybrids of pop corn	Joydebpur
1156	Maintenance of the parental lines of BARI maize hybrids	To maintain purity of the parental lines for further use.	Gazipur
1157	Maintenance and seed increase of the parental lines of BARI maize hybrids through selfed bulked method (4 Sets)	To maintain purity of the parental lines for further use	Gazipur, Bogra, Jamalpur & Rajshahi
1158	Seed production of the parental lines of BARI maize hybrids (7 Sets)	<ul style="list-style-type: none"> To increase seeds of the parent lines of different BARI maize hybrids To distribute the increased parental seeds to BADC and other private agencies <p>Location: BIL 20: Rahmatpur; BIL 22: Rahmatpur; BIL 28: Jessore and TCRC, Bogra; BIL 79: Burirhat & Kisorganj BIL 106: Rajshahi and Ishurdi; BIL 110: Jamalpur; BIL 114: Jamalpur</p>	
1159	Seed production of the parental lines of the selected HTMA and low water required hybrids (2 Sets)	<ul style="list-style-type: none"> To increase seeds of the parent lines of different selected maize hybrids & To distribute the seeds to BADC, private seed companies and NGOs <p>Location: Set I: Rahmatpur, Burirhat, Faridpur, Dinajpur, Jessore, Ishurdi, Hathazari, Bogra, Rangpur and Comilla. Set II: Thakurgaon; Pahartoli and Comilla</p>	
1160	Hybrid seed production of BARI maize hybrids (3 Sets)	To increase the hybrid seeds stock of the promising BARI maize hybrids for demonstration and distribution. Location: Set I : BHM 5, Rahmatpur, Set II: BHM 7, Jamalpur & Ishurdi; Set III: BHM 9, Gazipur & Jessore	
1161	Hybrid seed production of the BARI maize hybrids through GO, NGOs and Private agencies	Large scale hybrid seeds production of different BARI hybrid maize varieties through GO, NGOs and private agencies Location: BADC-Contract farmers & own farms, Manikgonj (CCDB), Thakurgaon (ACI), Manikgonj (Krishibid Group), progressive farmers and private seed company	
1162	Maintenance and seed production of BARI composite maize varieties (8 Sets)	<ul style="list-style-type: none"> To supply breeder's seed to BADC & other organization To maintain the purity of the popular composite varieties <p>Location: Gazipur: BARI Sweet corn 1 Gazipur & Hathazari: Khoibhutta Gazipur: BARI Baby corn 1 Lebukhali, Patuakhali: BM 5 Pabna : BM 6 Comilla: Barnali Kishoregonj, : BM 7 Debiganj: Mohar</p>	

SI No.	Research Title	Objective(s)	Location
1163	Demonstration trials of BARI hybrid maize varieties at different char areas of Jamalpur and Sherpur districts	<ul style="list-style-type: none"> To observe the performance BARI released maize hybrids in farmers field and to Popularize the BARI maize hybrids to the farmers 	Jamalpur and Sherpur char areas
1164	Field days on the performance of BARI maize hybrids & candidate varieties	To popularize BARI maize hybrids among the farmers and private agencies	Field days (8)
1165	Maize improvement and hybrid seed production in Bangladesh	To dissemination of quality hybridmaeseed production technology and storage technology	Gazipur
1166	Hybrid maize seed production and parent lines maintenance (for Scientists, BADC officers, NGOs and Seed companies) Hybrid maize production (for DAE officers and Field staffs) Molecular breeding and Maize biotechnology (for Scientists)Phenotyping for heat stress & data management (Scientists)	To trained-up scientists, BADC & DAE officers, NGO and different Seed company's personnel, field staff on molecular technology, seed production and hybrid maize production technology	Gazipur
1167	Collection, characterization and maintenance of local and exotic barley germplasm	<ul style="list-style-type: none"> To enrich genetic resources of barley To characterize collected materials To find out the variability of the collected materials To maintain the collected germplasm 	Gazipur and Jamalpur
1168	Hybridization of barley	To incorporate early and hull-less trait in high yielding hulled barley	Gazipur
1169	Performances of F ₂ generation of barley	<ul style="list-style-type: none"> To advance the generation To select individual line on the basis of desirable traits 	Gazipur
1170	Performances of F ₃ generation of barley	<ul style="list-style-type: none"> To advance the generation and To select individual line on the basis of desirable characters 	Gazipur
1171	Performances of F ₄ generation of barley	<ul style="list-style-type: none"> To advance the generation and To select individual line on the basis of desirable traits 	Gazipur
1172	Performance of F ₅ generation of barley	<ul style="list-style-type: none"> To advance the generation and To select individual line on desirable trait basis 	Gazipur
1173	Preliminary yield trial of hull-less barley	To select better performing hull-less barley line	Gazipurand Ishurdi
1174	Advanced yield trial of hull-less barley	To select better performing hull-less barley line	Gazipur and Ishurdi
1175	Regional yield trial of hull-less barley	To select better performing hull-less barley line	Gazipur and Ishurdi

SI No.	Research Title	Objective(s)	Location
1176	International Barley Yield Trial (High input conditions)	To test the performance of exotic barley lines in Bangladesh condition	Gazipur
1177	International Naked Barley Yield Trial	To test the performance of exotic barley lines in Bangladesh condition	Gazipur
1178	International Barley Observation nurseries- High Input	To test the performance of exotic barley lines in Bangladesh condition	Gazipur
1179	International Naked Barley Observation Nursery	To test exotic barley lines in Bangladesh condition	Gazipur
1180	Adaptive trials with BARI barley varieties in Southern belt and Barind areas	To observe the performance of BARI barley varieties in dry and saline areas	Saline areas Satkhira (3), Noakhali (3) and Barind tract (3)
1181	Adaptive trials with BARI barley varieties in Char areas	<ul style="list-style-type: none"> To observe the performance of BARI barley varieties in dry and saline areas To disseminate and popularize BARI barley varieties to the farmers of saline and dry areas 	Rangpur (2), Bogra (2), Jamalpur (2), Tangail (2)
1182	Breeder seed production of barley	<ul style="list-style-type: none"> To maintain and increase seed of the released variety and Supply seed to BADC, DAE or NGOS and farmers 	Gazipur, Ishurdi, Debigonj and Burirhat
1183	Collection, characterization and maintenance of millets germplasm	To find out the variability of the collected materials	Jamalpur (Islampur, Melandha, Bakshigong), Thakurgaon and Panchagar
1184	Adaptive trials with BARI kaon varieties in char areas	To disseminate and popularize BARI kaon varieties to the farmers of char areas	Char areas of: Jamalpur (3 locations)
1185	Breeder seed production of millets	To maintain and seed increase of the released variety of millets and supply breeder seed to BADC, DAE or NGOS and farmer	Gazipur, Ishurdi, Burirhat and Debigonj
1186	Advance yield trial of foxtail millets	To select better performing foxtail millets line	Gazipur
1187	Preliminary yield trial of finger millet	To select better performing finger millets line	Gazipur
1188	Evaluation of pearl millet germplasm	To evaluate the performance of the selected genotypes for future breeding program	Gazipur
1189	Large plot yield trial of sorghum	To select better performing sorghum lines for releasing as a variety	Gazipur

BIOTECHNOLOGY DIVISION

Protocol Development and Micro propagation			
1190	Standardization of protocol for advanced lines of strawberry and their large scale multiplication	To develop a protocol for mass propagation of introduced lines of strawberry	Biotechnology Lab, &HRC, Gazipur

SI No.	Research Title	Objective(s)	Location
1191	<i>In vitro</i> regeneration of okra (<i>Abelmoschus esculentus</i> L moench.)	To investigate the best plant growth regulators and their concentrations on regeneration of okra	Biotechnology Lab, Gazipur
1192	Study of comparative regeneration efficiency of different potato varieties	To study regeneration efficiency of potato varieties	Biotechnology Lab, Gazipur
1193	Rescue of Amritsagar banana from extinction through biotechnological approaches	<ul style="list-style-type: none"> Collection and <i>in vitro</i> propagation of Amritsagar banana variety To prevent the extinction of Amritsagar banana variety and reintroduce its cultivation at farmers level 	Biotechnology Lab, Gazipur
1194	<i>In vitro</i> regeneration of chickpea (<i>Cicer arietinum</i> L.)	To develop an efficient regeneration protocol for chickpea for future genetic transformation work	Biotechnology Lab, Gazipur
1195	Development of an efficient regeneration system of banana	To develop an efficient regeneration protocol of banana for future transformation work	Biotechnology Lab, Gazipur
1196	Development of <i>in vitro</i> regeneration technique for Gerbera	To find out a suitable technique for <i>in vitro</i> propagation of Gerbera and their adaptation at green house and nursery conditions	Biotechnology Lab, Gazipur
1197	Standardization of protocol for microspore culture to produce haploid lines of mustard (<i>Brassica rapa</i>)	To develop an efficient protocol for microscope embryogenesis in <i>Brassica rapa</i> for double haploid production	Biotechnology Lab, Gazipur
1198	<i>In vitro</i> propagation technique development of Rambutan	To develop reproducible methods for rapid multiplication	Biotechnology Lab, Gazipur
1199	<i>In vitro</i> cormel production of <i>Gladiolus</i>	To develop an efficient cormel production protocol of <i>Gladiolus</i>	Biotechnology Lab, Gazipur
1200	Production of wheat double haploids through wheat x maize crossing	To develop an efficient doubled haploid production system for wheat breeding in Bangladesh	RWRC, Biotechnology Lab, Gazipur
1201	PCR- Based detection and characterization of tomato leaf curl and other related Germiniviruses in Bangladesh	<ul style="list-style-type: none"> To develop strategies for the diagnosis and characterization of tomato leaf viruses prevailing in Bangladesh To develop strategies for diagnosis and characterization of other related germiniviruses in Bangladesh 	Biotechnology Lab, Gazipur
1202	Transformation of tomato for broad spectrum resistance against leaf curl viruses	Construction of appropriate plasmid vectors for virus derived resistance against leaf curl viruses	Biotechnology Lab, Gazipur
1203	Development of an efficient genetic transformation for egg plant	To develop an efficient genetic transformation protocol for locally adapted egg plant varieties	Biotechnology Lab, Gazipur
1204	Marker assisted transfer of salt tolerance Nax genes in Bangladesh wheat varieties	<ul style="list-style-type: none"> Crossing of salt- tolerated Nax wheat lines with selected Bangladesh wheat varieties Molecular marker assisted selection for the salt tolerance traits in the adapted varieties 	Biotechnology Lab, Gazipur & CSIRO, Australia

SI No.	Research Title	Objective(s)	Location
1205	Assesment of stress-tolerance attributes in wheat gene- specific molecular markers	Characterization of dwarfing genes in wheat using PCR- based markers	Biotechnology Lab, Gazipur
1206	Collection, marker assisted selection and in <i>Vitro</i> propagation of indigenous Sabricola	<ul style="list-style-type: none"> • Collection and marker assisted selection of indigenous Sabri kola genotypes • Selection of superior genotypes and in vitro propagation 	Biotechnology Lab, Gazipur & Pomology Division
1207	Identification of nuclear and zygotic seedling plants BARI Malta-1 using molecular marker	Selection of nuclear seedlings plant to type and zygotic seedling for F1 hybrid	Biotechnology Lab, Gazipur
1208	Isolation of low erucic acid (LEA) rapeseed (B. napus) plants from BD cultivars through MAS	To isolate the low erucic acid rapeseed plants from Bangladesh cultivars through marker assisted selection	Biotechnology Lab, Gazipur
1209	IN- Planta Transformation of Brassica rapa L.	<ul style="list-style-type: none"> • To study the development of a tissue culture- free genetic transformation protocol for Brassica rapa • Assessment in- planta transformation efficiency in B. rapa 	Biotechnology Lab, Gazipur
1210	Validation trial of tissue cultured plantlets of BARI Malta-1	To see the field performance of tissue cultured plantlets of BARI Malta-1 compared to grafted one	Ramgarh and Raikhali Khagrachari
1211	Validation trial of tissue cultured Jackfruit plantlets under field condition	To see the field performance of tissue culture saplings of Jackfruit compared to grafted and seeded ones	Khagrachari, Ramgarh, Hathazari, Akbarpur, Sylhet and Chittagong
1212	Observational trial of tissue cultured Pineapple plantlets under field condition	To observe the performance of tissue cultured Pineapple plantlets in respect of growth of plants, yield and quality of fruits	Gazipur, Hathazari, Raikhali, Rangamati, Pahartali, Ramgrah, Khagrachari
1213	Breeder seed production of Bt brinjal	Seed production of the newly released Bt brinjal varieties	Rangpur, Jamalpur, Ishurdi & Gazipur
1214	Measuring gene flow in the cultivation of Bt Brinjal	To estimate the frequency and distance of pollen dispersal from the Bt Brinjal	Biotechnology Lab, Gazipur
1215	Regulatory trial of transgenic late blight resistant potato clones under confined field condition	To evaluate gene equivalency between transgenic and non transgenic potato Stranderization of clones of fungicides to minimize fungicidal use	Gazipur, Rangpur, Bogra, Jessore, Comilla, Chittagong

SI No.	Research Title	Objective(s)	Location
1216	Pathological tests of RB Gene confined field condition	Minimization of fungicide spray in RB gene contained potato against late blight disease	Burirhat, Bogra
1217	Detection of RB gene in selected transgenic late blight resistant potato clones through PCR	To find out th RB gene integration in selected LBR potato clones	Biotechnology Lab, Gazipur
1218	Production of breeders propagation of transgenic late blight resistant potato clones through tissue culture	To produce plantlets / mini tubers of selected LBR potato clones	Biotechnology Lab, Gazipur

SOIL SCIENCE DIVISION

Physical Aspect of Soil Management			
1219	Assessment of leaching loss of nutrients and water requirement of wheat through lysimetric studies	<ul style="list-style-type: none"> To find out the water requirement of wheat estimating Kc and Et values using lysimeter To quantify the leaching loss of nutrients 	Gazipur
1220	Effect of tillage methods and integrated nutrient management on soil properties and productivity of Mustard-Mungbean-T. aus-T.aman cropping pattern	<ul style="list-style-type: none"> To observe the effect the tillage practices and integrated nutrient management on soil properties To increase the productivity of the said cropping sequence 	Gazipur, Rahmatpur and Bogra
1221	Effect of tillage methods and conventional compost formulated IPNS package on the productivity of Radish-Pea-Okra-T. aman rice cropping patterns and sustainability of soil health	<ul style="list-style-type: none"> To find out the suitable dose of compost and chemical fertilizers for maximizing the yield of the pattern To know the effect tillage methods and compost based IPNS package on the improvement of soil health 	Gazipur and Jessore
1222	Measurement of soil physical properties for central research farm of BARI	<ul style="list-style-type: none"> To determine the soil physical properties of BARI farm To provide information on crop suitability based on soil physical environment 	Gazipur
1223	Effect of conservation tillage practices and IPNS based fertilizer management on the productivity of Potato-Jute- T. aman cropping pattern	<ul style="list-style-type: none"> To evaluate effect of tillage methods and IPNS based fertilizer management on the productivity of the pattern To observe the changes in soil properties 	Jessore
1224	Effect of biochar and bioslurry on soil moisture conservation and yield of wheat	<ul style="list-style-type: none"> To conserve soil moisture and to increase soil carbon content To sustain crop yield 	Jamalpur
1225	Effect of tillage methods and residue management	<ul style="list-style-type: none"> To observe the effect the tillage practices and residue management on soil properties 	Gazipur, Jamalpur

SI No.	Research Title	Objective(s)	Location
	on soil properties and sustainable yield of Potato- Maize- T.aman rice cropping pattern	<ul style="list-style-type: none"> To increase the productivity of the said cropping sequence 	
1226	Effect of conservation tillage and residue management on soil moisture retention and productivity of Chickpea- Maize- T.aman rice cropping pattern in Barind soil	<ul style="list-style-type: none"> To observe the effect the tillage practices and residue management on soil moisture retention To make the best use of residual soil moisture in Barind tract's. To increase the crop productivity of the pattern 	Barind, Rajshahi
1227	Effect of raised bed planting and potassium application on the mitigation of soil salinity and yield of maize	<ul style="list-style-type: none"> To test the possibility that salinity damage can be reduced by elevating K fertilization rate To study the effects of salinity and K fertilization interactions on maize yield and nutrient uptake To study K dynamics in soil as a function of the salinity of the irrigation water 	Noakhali and Patuakhali
1228	Effect of different soil moisture regime and nutrient management on soil physical properties and yield of broccoli	<ul style="list-style-type: none"> To develop irrigation scheduling under given nutrient management options for higher use efficiency and yield To observe the changes in soil properties 	Gazipur
1229	Effect of legume-vegetative cover crop in reducing soil loss and improving crop productivity in hilly region	<ul style="list-style-type: none"> To find out the effect of legume-vegetative cover crop on soil conservation To increase the productivity of hill slope by using LCC and VCC To minimize rate of soil loss through utilization of LCC and VCC 	Ramgarh
1230	Effect of nitrogenous fertilizer and irrigation frequency on growth and yield of chilli in Chittagong region	<ul style="list-style-type: none"> To find the appropriate dose of nitrogenous fertilizer for maximizing yield To find out the duration of irrigation interval for the highest yield 	Hathazari, Chittagong
1231	Effect of IPNS on physico-chemical properties of soil and yield of mango	<ul style="list-style-type: none"> To observe the changes in physical and chemical properties of soil To find out the influence of organic fertilizer on Mango; and To develop a balanced fertilizer recommendation for maximizing the yield of Mango 	Chapai Nawabgonj
1232	Effect of different tillage practices on soil salinity and soil properties in wheat- mungbean- T.aman cropping pattern under GTFP soils of Bangladesh	<ul style="list-style-type: none"> To know the effect of different tillage practices on soil properties To know the effect of tillage practices on crop productivity To know the relationship between different tillage practices and soil salinity 	Satkhira

SI No.	Research Title	Objective(s)	Location
1233	Effect of different tillage depths and integrated nutrient management on Na- Ca- K dynamics in Mustard - mungbean-T.aman cropping system under GTFP soils of Bangladesh	<ul style="list-style-type: none"> To know the effect of different tillage depth on Na- Ca- K dynamics in soil properties To know the effect of different levels of compost on Na- Ca- K dynamics in soil and plant To know the interaction effect of different tillage practices and different levels of compost on Na- Ca- K dynamics in soil and plant 	Satkhira
1234	Soil physical properties, basic cation contents and tomato as influenced by irrigation and compost based organic manuring in salt affected soils under GTFP Bangladesh	To know the effect of different regimes of irrigation water and compost on the yield of tomato in salt affected soils	Satkhira
Chemical Aspect of Soil Management			
1235	Integrated nutrient management for sustaining soil fertility and yield of Wheat-Mungbean-T.aman cropping pattern	<ul style="list-style-type: none"> To find out judicious fertilizer recommendation for Wheat-Mungbean-T.aman cropping pattern for sustainable yield To monitor soil health after each cropping cycle of the pattern; and To estimate the uptake of different major nutrients and make a balance sheet for each of the nutrients 	Ishurdi and Jessore
1236	Integrated nutrient management for sustaining soil fertility and yield of Mustard-Mungbean-T.aman cropping pattern	<ul style="list-style-type: none"> To find out judicious fertilizer recommendation for Wheat-Mungbean-T.aman cropping pattern for sustainable yield To monitor soil health after each cropping cycle of the pattern and To estimate the uptake of different major nutrients and make a balance sheet for each of the nutrients 	Ishurdi and Jessore
1237	Long-term integrated nutrient management for sustaining soil fertility and yield of Maize-Mungbean-T.aman cropping pattern	<ul style="list-style-type: none"> To find out judicious fertilizer recommendation for Maize-T.aman cropping pattern for sustainable yield To monitor soil health after each cropping cycle of the pattern; and To estimate the uptake of different major nutrients and make a balance sheet for each of the nutrients 	Gazipur
1238	Evaluation of physical, chemical and microbiological soil properties of central research farm of BARI	<ul style="list-style-type: none"> To assess the physical properties of different research blocks To evaluate the essential nutrient status of different research blocks To determine the status of microbial population in different research blocks and To find out the heavy metal status of different research blocks 	Gazipur

SI No.	Research Title	Objective(s)	Location
1239	Development of fertilizer recommendation for summer tomato	<ul style="list-style-type: none"> To know the response of summer tomato to added nutrients To find out the optimum dose of N, P, K and S for yield maximization of summer tomato; and 3. To develop a package of fertilizer recommendation for summer tomato 	Gazipur
1240	Efficacy of vermicompost and convectional compost on chilli cultivation through IPNS basis	<ul style="list-style-type: none"> To study the effect of vermicompost and conventional compost on the growth and yield of chilli To determine the optimum rate of vermicompost and conventional compost for chilli cultivation; and To minimize the use of chemical fertilizer in presence of vercompost and conventional compost 	Gazipur
1241	Survey of soil nutrient status of Ishurdi station	<ul style="list-style-type: none"> To collect soil Sample from all blocks of RARS, Ishurdi To determine soil nutrient status; and To maintain optimum level of soil fertility 	All the blocks of RARS, Ishurdi
1242	Effect of integrated nutrient management on the yield and quality of sweet pepper	<ul style="list-style-type: none"> Effect of organic fertilizer On the yield and quality of sweet pepper Maximizing and sustaining yield of sweet pepper using of thus reducing use of chemical fertilizers 	Gazipur and Rangpur (OFRD)
1243	Estimation of fertilizer requirement for four crop based cropping pattern	<ul style="list-style-type: none"> To develop a fertilizer recommendation for four crop based cropping pattern To Maximize the yield of four crop based cropping pattern through nutrient management To estimate the uptake and nutrient balance of the above cropping pattern 	Gazipur and Rajshahi
1244	Effect of IPNS on the yield of crops and nutrient uptake of Cauliflower – Amaranth-T. aman cropping pattern	<ul style="list-style-type: none"> To maintain or enhance soil productivity through a balanced use of mineral fertilizers combined with organic sources of plant nutrients; To improve the efficiency of plant nutrients, thus limiting losses to the environment To increase and sustain crop yield 	Gazipur and Bogra
1245	Effect of IPNS for sustaining soil fertility and yield of crops on Maize-Mungbean-T. aman cropping pattern	<ul style="list-style-type: none"> To maintain or enhance soil productivity through a balanced use of mineral fertilizers combined with organic and biological sources of plant nutrients; To improve the efficiency of plant nutrients, thus limiting losses to the environment To increase and sustain crop yield 	Gazipur and Bogra
1246	Integrated Nutrient Management for Sustainable Production	<ul style="list-style-type: none"> To determine the responses of onion to INM based treatments To enhance soil fertility 	Gazipur

SI No.	Research Title	Objective(s)	Location
	and Quality of onion	<ul style="list-style-type: none"> To increase yield and quality of onion To assess the nutrient uptake determine net changes in the soil nutrient balance 	
1247	Estimation of fertilizer requirement for four crop based cropping pattern	<ul style="list-style-type: none"> To develop a fertilizer recommendation for four crop based cropping pattern To maximize the yield of four crop based cropping pattern through nutrient management To estimate the uptake and nutrient balance of the above cropping pattern 	Jamalpur & Jessore
1248	Estimation of fertilizer requirement for four crop based cropping pattern	<ul style="list-style-type: none"> To develop a fertilizer recommendation for four crop based cropping pattern To Maximize the yield of four crop based cropping pattern through nutrient management To estimate the uptake and nutrient balance of the above cropping pattern 	Jamalpur & Jessore
1249	Estimation of fertilizer recommendation for Muskmelon	<ul style="list-style-type: none"> To know the response of Muskmelon to added nutrients To find out the optimum dose of N, P, K and S for yield maximization of Muskmelon To develop a package of fertilizer recommendation for Muskmelon 	Jamalpur and Patuakhali (OFRD)
1250	Effect of vermicompost for improving the yield and nutritional quality of cabbage	<ul style="list-style-type: none"> To study the effect of vermicompost on the growth and yield of cabbage To assess the effect of vermicompost on the nutritional quality of cabbage 	Gazipur Rangpur and Jessore
1251	Determination of optimum sowing date of wheat in Grey Terrace soil of Gazipur (AEZ-28) using APSIM Model	<ul style="list-style-type: none"> To evaluate the APSIM Model for wheat and its ability to simulate growth, development and grain yield of wheat at Gazipur To study the impact of different sowing date on wheat performance To determine the optimum sowing date of wheat yield under irrigated conditions of AEZ-28 using APSIM model To simulate the effect of projected future climate change on wheat yield at different sowing dates at various locations 	Gazipur
1252	Characterization of solid wastes generated from BARI campus	<ul style="list-style-type: none"> To characterize the solid waste generated from BARI campus To find out the suitability of utilization of different fractions of solid waste 	Gazipur
1253	Characterization and utilization of crop residue / agro- industrial waste generated from different crops/ agro- industries in Bangladesh	<ul style="list-style-type: none"> To characterize the crop residue / agro-industrial waste generated from different crops/ agro- industries To study the present utilization of crop residues / agro- industrial waste To find out the suitability of better utilization of different crop residues / agro- industrial waste 	Gazipur

SI No.	Research Title	Objective(s)	Location
1254	Temporal analysis of climatic trends and projected changes in climate extremes over Barind r region in Bangladesh	<ul style="list-style-type: none"> To analyze the climatic trends of observed climate indices To develop the future climate scenarios by different climate models (GCMs & RCM) To develop some adaption measures based on future climate scenarios 	Rajshahi
1255	Liming effect of poultry liter biochar in acidic soil	To investigate the effectiveness of poultry liter biochar on the amelioration of acidic soil	Gazipur
1256	Comparative study on crop straw and their biochar to increase carbon stock and soil health	<ul style="list-style-type: none"> To compare the amelioration effects of biochar and their feed back on an acid soil To investigate the effects of incorporation of biochar from crop residues on soil pH To quantify the change of soil health 	Gazipur
1257	Integrated nutrient management on summer cauliflower	<ul style="list-style-type: none"> To assess the effects of organic and inorganic fertilizer on summer cauliflower yields To quantify the changes of soil health due to addition of organic fertilizer 	Bogra
1258	Development of fertilizer recommendation for Bt brinjal	<ul style="list-style-type: none"> To know the response of Bt brinjal to added nutrients To find out the optimum dose of N, P, K & S for yield maximization of Bt brinjal To develop packages of fertilizer recommendation for Bt brinjal 	Gazipur
1259	Effect of vermicompost on the tomato yield and soil health	<ul style="list-style-type: none"> To study the effect of vermicompost on the yield and yield components of tomato To investigate the effect of vermicompost on post harvest soil 	Gazipur
1260	Development of fertilizer recommendation for hybrid maize with Broccoli intercropping system	To find out a suitable and economic fertilizer dose for maximizing the yield from the intercropping system	Gazipur Rangpur
1261	Effect of different sources of irrigation water on nutrient content and uptake in maize in saline region of Satkhira	<ul style="list-style-type: none"> To find out the effect of different sources of irrigation water on nutrient content and uptake in maize To find out the effect of different sources of irrigation water on maize productivity 	Satkhira
1262	Effect of nitrogen and foliar application of boron on yield and quality of Mustard	To find out the effect of nitrogen and foliar application of boron on yield and quality of Mustard	Satkhira
Micronutrient Aspect of Soil Management			
1263	Determination of heavy metal status of different vegetables from industrially polluted and non-polluted areas	<ul style="list-style-type: none"> To study the accumulation of heavy metals in vegetables To correlate the heavy metals uptake with essential plant nutrients; and To compare the heavy metal status of vegetables grown in polluted and non-polluted areas 	Soil samples from industrial polluted and non polluted areas

SI No.	Research Title	Objective(s)	Location
1264	Assessment of arsenic contamination in soils, water and crops of different agro- ecological zones of Bangladesh	<ul style="list-style-type: none"> To determine the arsenic status in soils, water and crops; and To study the relationship of arsenic availability with soil characteristics 	Chapai-nawabganj, Kurigram, Tangail, Jamalpur, Jessore, Faridpur, Manikgonj
1265	Effects of phosphorus in reducing arsenic availability in soils and arsenic uptake by maize and rice	<ul style="list-style-type: none"> To evaluate the role of phosphorus (P) in arsenic (As) availability To find out the optimum dose of in reducing As uptake by maize and rice; and To mitigate As contamination and to improve crop quality 	Gazipur
1266	Screening of zinc rich wheat genotypes	<ul style="list-style-type: none"> To determine the content of Zn in grains and straw with corresponding soils of wheat genotypes/cultivars; and To identify Zn rich ones 	Dinajpur, Rajshahi, Ishurdi, Jamalpur, Gazipur
1267	Remediation of heavy metals polluted soil from industrial effluents polluted areas through organic amendments	<ul style="list-style-type: none"> To evaluate the efficiency of organic amendments as an accumulator for heavy metal in contaminated soil To determine the uptake pattern of heavy metal in the root, shoot and grain fruit-1 system of tested crop; and To quantify the heavy metal status of polluted soils 	Gazipur
1268	Requirement of zinc and boron for the Potato-Maize-T. aman rice cropping pattern	<ul style="list-style-type: none"> To evaluate the requirement zinc and boron in the Potato-Maize- T. aman rice cropping pattern To observe the residual effect of zinc and boron; and To find out the uptake and balance of nutrients 	Debiganj & Gazipur
1269	Effect of foliar application of molybdenum on the yield of cauliflower	<ul style="list-style-type: none"> To know the response of cauliflower on foliar application of molybdenum for higher yield To find out the optimum dose of molybdenum for maximizing the yield of cauliflower 	Gazipur
1270	Resonse of boron fertilization on groundnut in high Ganges river floodplain soils	<ul style="list-style-type: none"> To find out the requirement of boron in relation to yield and yield contributing characters To estimate the uptake of boron by groundnut 	Ishurdi, Pabna
1271	Response of blackgram to boron in high Ganges river floodplain soils	<ul style="list-style-type: none"> To find out the optimum dose of boron for specific black gram variety To find out the uptake of boron in relation to yield by black gram 	Ishurdi, Pabna
1272	Zinc-iron relationship in wheat plant grown under	<ul style="list-style-type: none"> To know the effect of foliar application of zinc and iron and their combination on the 	Gazipur

SI No.	Research Title	Objective(s)	Location
	drought stress condition	yield of wheat under drought stress condition; and • To know the concentration and total uptake of these nutrients in grains of wheat	
1273	Effect of vermicompost on micronutrient availability and carbon accumulation in soils	• To quantify the effect of vermicompost on Cu, Fe, Mn, Zn and B availability in soils • To determine the rate of carbon accumulation in soils from vermicompost application	Gazipur
1274	Effectiveness of soil and foliar applications of Zinc and Boron on the yield of Sweetpepper production	• To identify a suitable combination of Zn and B fertilization for sweet pepper production • To compare the effects of the method of micronutrient application foliar vs soil fertilization on plant growth and yield of sweet pepper	Gazipur
1275	Effect of foliar applications of Zinc and Boron on wheat yield in saline areas of Satkhira	• To investigate the efficacy of foliar application of Zinc on the yield and yield components of wheat • To find out the effect of foliar application of Zinc on soil physical and chemical properties	Satkhira
1276	Estimation of green house gas emission and carbon sequestration crop fields	• To obtain quantitative estimators of green house gases (CO ₂ , CH ₄ and N ₂ O) • To determine the impact of management practices for carbon sequestration under different cropping patterns	Gazipur
Microbiological Aspect of Soil Management			
1277	Study on collection, isolation and screening of indigenous <i>Rhizobium</i> strains, arbuscular mycorrhizal fungi, <i>Azotobacter</i> , phosphate solubilizing bacteria and <i>Azospirillum</i> strain(s) for different crops from different AEZs of Bangladesh	• To select the best indigenous <i>Rhizobium</i> strain(s), arbuscular mycorrhizal fungi, <i>Azotobacter</i> , phosphate solubilizing bacteria and <i>Azospirillum</i> strain(s) from different AEZs of Bangladesh • To prepare biofertilizer for different legume and other crops	Rahmatpur, Jessore, Gazipur, Hathazari, Rajshahi, Dinajpur, Rangpur, Ishurdi, Khagrachari, Raikhali, Patuakhali, Satkhira, Noakhali, Cox's Bazar, Sylhet, etc.
1278	Assessment of Arbuscular mycorrhizal association in fruit plants	• To study the percent root colonization and AM fungal spore population in the rhizosphere soil • To produce suitable AM inoculum for future use in different crops	Rajshahi, Rahmatpur, Burirhat, Jessore
1279	Integrated use of Arbuscular mycorrhiza and chemical fertilizer in producing vegetables, spices and fruit crop saplings	• To study the effect of combined application of arbuscular mycorrhiza and chemical fertilizer on the performance of vegetables, spices and fruit crop seedlings • To reduce the use of chemical fertilizer	Gazipur

SI No.	Research Title	Objective(s)	Location
1280	Effect of Arbuscular mycorrhiza and toxic metals on different vegetables	<ul style="list-style-type: none"> To know the effect of AM inoculation on the uptake of toxic metals by different vegetables treated with different concentration of toxic metals To reduce the toxic metals through the use of arbuscular mycorrhiza 	Gazipur
1281	Effect of <i>Azotobacter</i> on the growth and yield of onion	<ul style="list-style-type: none"> To study the role of <i>Azotobacter</i> on the growth and yield of onion To find out the nutrient uptake as influenced by <i>Azotobacter</i> 	Gazipur
1282	Bio control of foot and root rot disease of pulse and oilseed crops by dual inoculation with <i>Rhizobium</i> and arbuscular mycorrhiza	<ul style="list-style-type: none"> To observe the effect of pre-inoculation of AM and <i>Rhizobium leguminosarum</i> on the disease resistance of pulse and oilseed crops infected by pathogen To produce healthy and vigorous seedlings of different pulse and oilseed crops 	Gazipur
1283	Effect of Arbuscular mycorrhizal fungi and phosphorus on vegetables, spices and legume crops	<ul style="list-style-type: none"> To study the effect of combined use of arbuscular mycorrhiza and phosphorus on the performing of vegetables spices and fruit crops under field condition To reduce to use of P-fertilizer for vegetables, spices and legume crops 	Ishurdi, Jamalpur, Bogra, Faridpur, Rahmatpur, Gazipur
1284	Effect of biofertilizer, vermicompost and chemical fertilizers on gardenpea, bushbean and groundnut	<ul style="list-style-type: none"> To study the effect of bio-fertilizer and vermicompost on yield of bushbean and gardenpea To find out nutrient uptake as influence by bio-fertilizer and vermicompost To reduce the chemical fertilizer in bushbean and gardenpea cultivation 	Ishurdi, Rahmatpur, Gazipur, Jamalpur
1285	Study on the rhizobial population and other soil microorganism status of different soils (AEZs) of Bangladesh	<ul style="list-style-type: none"> To study the native rhizobial and other soil microorganism population of different soils of Bangladesh To know the effect of climate change on the rhizobial population and other soil microorganisms 	Different AEZs of Bangladesh
1286	Effect of Arbuscular mycorrhizal inoculation on pulse and oilseed crops at different salinity levels	<ul style="list-style-type: none"> To evaluate the role of AMF and the percentage of AM colonization on growth and nutrient uptake of respective crop under salinity stress condition To observe the effect of AM under salinity stress condition In order to further understand salt tolerance mechanisms in inoculated plants 	Gazipur
1287	Effect of <i>Trichoderma harzianum</i> and Arbuscular mycorrhizal fungi on growth and disease management in vegetable and pulse crops	The aim of this study was to investigate the potential of AMF and <i>Trichoderma harzianum</i> , alone and in dual combination on different growth parameters and disease management in vegetable and pulse crops	Gazipur

SI No.	Research Title	Objective(s)	Location
1288	Effect of cropping pattern and seasonal variation on soil microbial biomass carbon and nitrogen in different AEZs soil of Bangladesh	<ul style="list-style-type: none"> To determine soil microbial biomass carbon and nitrogen in different cropping pattern To find out the seasonal variation of microbial biomass carbon and nitrogen and To monitor the soil fertility status 	Gazipur
1289	Response of groundnut varieties to elite strains of <i>Bradyrhizobium</i>	<ul style="list-style-type: none"> To study the effect of <i>Bradyrhizobium</i> inoculation and varieties at different locations and To popularize the use of <i>Bradyrhizobium</i> inoculant instead of applying urea-N for groundnut production 	Gazipur, Jamalpur, Rahmatpur, Kishoregonj
1290	Response of chickpea varieties to elite strains of <i>Rhizobium</i>	<ul style="list-style-type: none"> To study the response of <i>Rhizobium</i> inoculation with different varieties of chickpea To study the effect of <i>Rhizobium</i> inoculation and varieties at different locations and To popularize the use of <i>Rhizobium</i> inoculant instead of applying urea-N for chickpea production 	Gazipur, Jessore, Ishurdi, Barind (Rajshahi)
1291	Effect of soils and region on decomposition rates of different organic materials	<ul style="list-style-type: none"> To evaluate the variation of the decomposition rate of different organic materials under different soil types To study the variation of decomposition by biochemical quality of organic materials in different soil types 	Gaszipur Jessore and Dinajpur
1292	Suitability study of Biochar as an alternate carrier to peat for the preparation of <i>Rhizobium</i> biofertilizers	<ul style="list-style-type: none"> To assess the suitability of biochar as a substrate for biofertilizer as a substrate for biofertilizer production as an alternate to peat To study the viability of <i>Rhizobium</i> inoculants under different period storage as well as different temperature 	Gazipur
1293	Study on symbiotic and molecular characterization of <i>Rhizobial</i> strains isolated from different AEZs and their PGPR activity and N ₂ fixation properties in pulse and oil seed legume	<ul style="list-style-type: none"> To isolate and identify effective <i>rhizobial</i> from acidic, drought, saline and hilly areas of Bangladesh To measure nodulation test of collected strains in respective crops To measure plant growth promoting activity and N fixation capacity in respective crops Genomic DNA isolation, PCR amplifications and sequencing to know family, genus and species of effective <i>rhizobial</i> strains 	Rahmatpur, Jessore, Gazipur, Hathazari, Rajshahi, Dinajpur, Rangpur, Ishurdi, Khagrachari, Raikhali, Patuakhali, Satkhira, Noakhali, Cox's bazar, Sylhet & different AEZs

SI No.	Research Title	Objective(s)	Location
1294	Effect of newly introduced green manure cover crop biomass contribution to C and N stock during green manure- rice- vegetables / pulses cropping pattern	<ul style="list-style-type: none"> To know adaptability of Hairy vetch green manuring cover crop along or combinations with Dhaincha and Barley To measures nodulation, nitrogen fixation, Rhizobium Community contributed N status in subsequent rice- vegetables / pulses To measures biomass yield, organic matter and C sequestration for subsequent crop To reduce the chemical fertilizer in subsequent rice- vegetable/ pulse cultivation 	Gazipur, Hathazari, Barisal, Ishurdi
1295	Effect of Rhizobium and mycorrhizal inoculation on nodulation, plant characters and yield of Soybean	<ul style="list-style-type: none"> To evaluate the effect of Rhizobium and mycorrhiza on the performance of soybean nodulation and yield To reduce the use of nitrogenous and phosphate fertilizer To improve the fertility status of soil 	Gazipur

ENTOMOLOGY DIVISION

1296	Survey of Insect Pests Attacking Wheat and Determination of Their Damage Potentials	<ul style="list-style-type: none"> To document the damage severity of insect pests attacking wheat. To identify the natural enemies of insect pests of wheat 	Gazipur, Rangpur, Dinajpur
1297	Survey of Insect Pests Attacking Maize and Determination of Their Damage Potentials	<ul style="list-style-type: none"> To document the damage severity of insect pests attacking maize To identify the natural enemies of insect pests of maize 	Gazipur, Dinajpur
1298	Development of Bio-Rational Based Management Approach (Es) Against Cob Borer, <i>Helicoverpa</i> Attacking Maize	To develop environment friendly integrated management tactic(s) against cob borer attacking maize	Gazipur
1299	Evaluation of Different Management Packages Against Flower Thrips and Pod Borers Of Mungbean Both In Farmer's Field and On Station Conditions	<ul style="list-style-type: none"> Developing environment friendly effective and economic management approach(es) against insect pests of mungbean Producing toxic synthetic insecticide free mungbean 	Gazipur & Rajshahi
1300	Effect of weeding on the incidence of thrips and pod borers of summer mungbean	To find out the influence of weed as a harbor of insect pests of summer mungbean and its effect on grain yield of mungbean	Ishardi
1301	Evaluation of Some Management Packages Against Pod Borer, <i>Helicoverpa Armigera</i> Infesting Chickpea In Farmer's Field and on Station Conditions	To evaluate different biorational based IPM packages against pod borer, <i>Helicoverpa armigera</i> attacking chickpea	Gazipur & Rajshahi

SI No.	Research Title	Objective(s)	Location
1302	Screening of promising pea germplasm against attack of major insect pests	<ul style="list-style-type: none"> To select insect pest pea in different promising pea germplasm To know the incidence of insect pests in different promising pea germplasm 	Ishurdi
1303	Screening of mustard genotypes against aphid under natural and field condition	<ul style="list-style-type: none"> To find out aphid resistant/tolerant rapeseed genotype(s) To observe the peak infestation period of aphid in different mustard genotypes 	Gazipur
1304	Role of Honey Bee on The Yield and Yield Contributing Characteristics of Mustard	To assess/quantify the yield increase due to visit of honeybee in the mustard field	Gazipur
1305	Development of Bio-Control Based Management Package Against The Major Insect Pest of Soybean	To find out the most effective management package against insect pest complex (leaf roller, hairy caterpillar and common cutworm) in soybean	Noakhali
1306	Screening of Soybean Entries Against Major Insect Pest	To select soybean genotype(s) resistant to insect pests attack	Gazipur
1307	Survey, monitoring and documentation of major insect pests and their natural enemies of groundnut	<p>To identify of insects pests attacking groundnut</p> <p>To determine of damage severity of insect pests</p>	Bogra Jamalpur Sherpur
1308	Management of borer complex in groundnut	<ul style="list-style-type: none"> To find out most effective management option for bud borer complex on groundnut To know the damage severity of the pests 	Sariakandi
1309	Screening of groundnut genotypes Against Major Insect Pest	<ul style="list-style-type: none"> To find out the resistance genotypes against groundnut genotype(s) To find out the incidence of the pests 	Gazipur
1310	Management of common cutworm in groundnut	To find out most effective management option for bud borer complex on groundnut	Gazipur
1311	Development of Management option (s) against hairy caterpillar in sesame	<ul style="list-style-type: none"> To record the incidence and damage severity of the pests To find out most effective management technique for managing of the pests 	Gazipur
1312	Comparative potential of different IPM packages and their economics against major insectpests of Brinjal	To validate and upscaling of IPM packages for the control of major insect pests of Brinjal	Gazipur, Jamalpur, Barisal
1313	Development of a Management option (s) against red spider mite on Brinjal	To obtain a suitable management packages for controlling red spider mite of Brinjal	Rangpur
1314	Performance of transgenic Bt brinjal varieties against	<ul style="list-style-type: none"> Comparison of infestation levels of target insects pest on Bt brinjal varieties and non Bt counterparts 	Bogra, Ishurdi

SI No.	Research Title	Objective(s)	Location
	target and non- target insects	<ul style="list-style-type: none"> To generate information on incidence of non-target insects and natural enemies among Bt brinjal and their non Bt counter parts 	
1315	Development of a effective Management package against Thrips in Brinjal	To obtain a suitable management option against thrips infesting of Brinjal	Gazipur
1316	Up Scaling and Field Validation of Bio-Rational Based Integrated Management Packages Against Major insect pest of cucurbit	<ul style="list-style-type: none"> Validation and up scaling of IPM package for the control of major insect pests of cucurbit Production of toxic synthetic chemical pesticide free cucurbits 	Gazipur, Jessore, Barisal
1317	Management of leaf miner in ridge gourd	To find out effective management approach (es) for leaf miner infesting ridge gourd	Jamalpur
1318	Development of biorotational based integrated management packages against major insect pests of Tomato	<ul style="list-style-type: none"> To develop suitable IPM packages for the control of major insect pests of tomato To produce toxic chemical pesticides free tomato 	Gazipur
1319	Up Scaling and field validation of Bio-Rational Based Integrated Management Packages Against Major fruit borer Pests of late winter Tomato	<ul style="list-style-type: none"> To validate and upscale IPM package for the control of fruit borer of late tomato To produce of toxic synthetic chemical pesticide free tomato 	Panchagrah
1320	Relative susceptibility of BARI released tomato varieties to fruit borer, leaf miner and whitefly	To identify the resistant tomato variety (es) to fruit borer, leaf miner and white fly	Gazipur, Rajshahi, Sylhet, Thakurgaon
1321	Development of biorotational based integrated management packages against major insect pests of summer Tomato	<ul style="list-style-type: none"> To develop suitable IPM packages for the control of major insect pests of summer tomato To produce toxic chemical pesticides free summer tomato 	Gazipur, Barisal
1322	Development of a Management approach against pod borer attacking yard long bean	To develop a suitable management packages for the pod borer attacking yard long bean	Gazipur
1323	Relative susceptibility of countrybean varieties to legume pod fruit borer and aphid	To identify the resistant country bean variety (es) to legume pod fruit borer and aphid	Gazipur, Jessore, Rangpur
1324	Upscaling and field validation of bio-rational based integrated management packages Against major insect pests of Country bean	To up scale and validate IPM packages for the control of insect pests of country bean To produce of toxic synthetic chemical pesticide free country bean	Gazipur

SI No.	Research Title	Objective(s)	Location
1325	Development of Bio-rational based IPM (s) against insect pests complex of summer Country bean	<ul style="list-style-type: none"> To develop environmentally friendly IPM approach (es) against pest complex of summer country bean To produce of toxic synthetic chemical pesticide free country bean 	Gazipur
1326	Development of bio-Rational Based Integrated Management Packages for the Major insect pests of Cabbage	To develop IPM package for managing major insect pests of cabbage	Gazipur
1327	Development of Bio-rational Based Integrated Management Package(S) Against Diamond Back Moth Attacking Cabbage	To develop IPM package for managing DBM attack in cabbage	Gazipur
1328	Development of a Management Approach Against Insect Pest Complex of Okra	To develop appropriate strategy for managing the Insect Pest Complex of okra	Gazipur, Jamalpur
1329	Survey, monitoring and documentation of major insect pests of Raddish	<ul style="list-style-type: none"> To identify of insect pests attacking of radish To determine damage severity of insect pests of Radish 	Bogra
1330	Development of Management Approach Against Flea Beetle attacking (<i>Phyllotreta striolata</i>) of Radish	<ul style="list-style-type: none"> To find out most effective management option for flea beetle on radish To know the damage severity of the pest 	Bogra
1331	Identification and documentation of whitefly species and damage severity in vegetables crops	To identify and documentation the whitefly species of vegetables crops in Northern region of Bangladesh	Dinajpur, Rangpur, Thakurgaon, Panchagarh
1332	Studies on the succession of insect pests and their natural enemies in some selected crops	<ul style="list-style-type: none"> To assess the infestation status of <i>S. litura</i> on different crops To find out the incidence of natural enemies in some selected crops 	Gazipur
1333	Year round monitoring of insect pests in protective hydroponic culture	To document insect pests and natural enemies in hydroponic	Gazipur
1334	Effect of different management approach against of potato tuber moth in farmers field	<ul style="list-style-type: none"> To find out an effective management approach for potato tuber moth (PTM) To estimate the extent of damage by PTM 	Gazipur, Munshiganj
1335	Development of Integrated Management package's for the Control of Potato Tuber Moth (PTM) In Storage Condition	<ul style="list-style-type: none"> To find out an effective management approach for potato tuber moth (PTM) in storage To estimate the extent of damage by PTM in storage 	Gazipur and Munshiganj

SI No.	Research Title	Objective(s)	Location
1336	Development of Effective Integrated Management Package Against Sweet Potato Weevil	To determine an effective package against weevil infestation in sweet potato	Gazipur
1337	Survey, Monitoring and Documentation of Major Insect Pests of Panikachu	<ul style="list-style-type: none"> To identify insect pests attacking panikachu at Bogra region. To determine damage severity of those insect pests 	Joypurhat
1338	Field validation of integrated management of common cutworm (Spodoptera Litura) on aroid at farmers field condition	To evaluate the performance of IPM approach in controlling common cutworm	Joypurhat, Jamalpur
1339	Efficacy of different management approach against red spider mite of Panikachu	<ul style="list-style-type: none"> To find out the suitable management option against red spider mite Determination of damage severity by red spider mite 	Gazipur
1340	Monitoring, documentation and damage severity of insect pests of minor tuber crops and along with their natural enemies	<ul style="list-style-type: none"> To assess the damage severity of insect pests of aroid To identify the insect pests and their natural enemies of potato and aroid 	Gazipur, Jessore & Hilly areas
1341	Survey, monitoring and documentation of thrips and inflorescence midge attacking Mango	<ul style="list-style-type: none"> Documentation of thrips and inflorescence midge on mango flower and new flush Assessment of damage severity of thrips and inflorescence 	Chapai nawabganj
1342	Development of management approach against mango fruit fly	To find out appropriate management approach for controlling mango fruit fly	Jamalpur
1343	Insecticide based management of mango leaf hopper	To find out most effective insecticides (s) for the management of mango leaf hopper	Chapai nawabganj
1344	Bio rotational based management of mango leaf hopper	To find out most suitable bio-rotational based management option (s) for the control of mango leaf hopper	Chapai Nawabganj, Rangpur
1345	Survey, collection and identification of different pollinators of Mango	<ul style="list-style-type: none"> Recording and identifying different pollinators of mango during flowering Documenting the impact of insecticides on pollinators of mango 	Gazipur, Rajshahi
1346	Development of management approach against litchi fruit borer	To develop a suitable management technique against litchi borer	Rangpur
1347	Development of management approach against litchi mite	To develop a suitable management technique against litchi mite	Rangpur
1348	Survey and documentation of insect	<ul style="list-style-type: none"> Recording the major insect pests attacking litchi 	Pabna

SI No.	Research Title	Objective(s)	Location
	pests of litchi and their management scenario at farm level in Ishurdi region	<ul style="list-style-type: none"> Documenting the insect pest management scenario at farm level 	
1349	Study on the natural occurrence of insect pollinators in litchi	To document the different pollinators of litchi during flowering period	Rajshahi
1350	Development of appropriate management approach against insectpest complex of coconut	To find out suitable management approach against insect pest complex of coconut	Barisal, Jessore
1351	Suevey of papaya mealy bug and their parasitoid on different vegetables and fruits crops especially in the Indo- Bangla border belts	To record the incidence of papaya mealy bug and their parasitoid on different vegetables and fruits crops especially in the Indo- Bangla border belts	Gazipur, Jessore, Syhlet, Khulna, Comilla, Moulvibazer, Rajshahi, Panchagar
1352	Development of management approach against tube spittle bug attacking ber	<ul style="list-style-type: none"> To find out most effective management option for the tube spittle bug attacking ber To determine the damage severity of the pest 	Bogra, Chapai Nawabganj, Rajshahi
1353	Development of management approach against guava fruit fly	To find out appropriate management approach for guava fruit fly	Jamalpur
1354	Survey and documentation of major insect pests of citrus	<ul style="list-style-type: none"> To document the major insect pests of citrus To record natural enemies of the pests 	Gazipur, Narshindi, Jamalpur, Comilla, Jaintapur, Akbarpur, Raikhali, Khgrachari, Hathazari, Debiganj
1355	Development of management strategy (ies) for citrus flat mite infestation in lime	<ul style="list-style-type: none"> To develop a control strategy for controlling ctrud flat mite in lime To increase a control production of export quality lime 	Gazipur, Jaintapur, Akbarpur
1356	Study on the pest status of different insects and mite pests and their natural enemies on citrus	<ul style="list-style-type: none"> To assess the damage severity of different inect and mite pests of citrus To identify different natural enemies on citrus To determine the seasonal fluctuation pattern of different citrus pests 	Gazipur
1357	Managemewnt of Giant Mealy Bug infesting different trees in Dhaka City Corporation area	To find out effective management option (s) against Giant Mealy Bug	Dhaka Cantonment & Home Economic College, Dhaka

SI No.	Research Title	Objective(s)	Location
1358	Survey, monitoring and documentation of major insect pests of Bermese Grape (Lotkon)	<ul style="list-style-type: none"> • Identification of insect pest attacking lotkon • Determination of damage severity of insect pests 	Narshindi
1359	Bio rotational management of Boll Worm attacking Rose	To develop environment friendly management option (s) for the control of rose boll worm	Jessore & Savar
1360	Development of management tactics against Thrips in Onion	<ul style="list-style-type: none"> • To develop the suitable management option in controlling onion thrips 	Bogra
1361	Development of intregated pest management packages against umbel borer	<ul style="list-style-type: none"> • To find out an environment friendly management approach against umbel borer in onion • To find out cost effective management option (s) against umbel borer in onion 	Bogra
1362	Effect of straw mulching and reduced- risk pesticides on thrips and IRIS and Yellow Spot Virus on onion	<ul style="list-style-type: none"> • To quantify the effects of straw mulching and reduced- risk in pesticides in managing thrips and IRIS and Yellow Spot Virus on onion • To find out cost effective management options against thrips and IRIS and Yellow Spot Virus on onion 	Bogra
1363	Evaluation of some onion germplasm against Thrips	<ul style="list-style-type: none"> • To identify thrips resistant onion germplasm • To record population dynamics of thrips 	Bogra& Gazipur
1364	Development of management approach against Thrips in Garlic	To find out effective management option against thrips in garlic	Bogra
1365	Evaluation of different garlic germplasm against Thrips infestation	<ul style="list-style-type: none"> • To identify thrips resistant garlic germplasms • To record the population dynamics of thrips in reszistant germplasms 	Bogra
1366	Field validation of intregated management approach of common cutworm on chilli at Bogra region	To evaluate the effectiveness of IPM approach for controlling common cutworm in Chilli	Bogra
1367	Effect of intercropping of incidence of mite and thrips on chilli	To evaluate the effectiveness of intercropping carrot, onion,tomato & coriander with chilli in the management of mite and thrips in chilli	Bogra
1368	Evaluation of chilli germplasma against thrips and mite infestation	<ul style="list-style-type: none"> • To identify thrips and mite chilli germplasms • To record the population dynamics of thrips and mite in resistant germplasms 	Gazipur & Bogra
1369	Development of management approach against Thrips- mite complex in Chilli	To find out cost effective management option against thrips- mite complex in chilli	Gazipur, Bogra
1370	Survey and documentation of major insect pests and their natural enemies in Ginger	<ul style="list-style-type: none"> • To document the major insec pests attacking and their damage severity • To identify the natural enemies of ginger insect pests 	Gazipur

SI No.	Research Title	Objective(s)	Location
1371	Survey and documentation of major insect pests and their natural enemies in Ginger	<ul style="list-style-type: none"> To document the major insect pests attacking and their damage severity To identify the natural enemies of ginger insect pests 	Gazipur
1372	Management of leaf gall in Bay Leaf	To develop suitable control measure against gall forming mite of Bay leaf	Bogra & Gazipur
1373	Survey, monitoring and documentation of major insect pests of Bay leaf	Identification of insect pests attacking Bay leaf Determination of damage severity of insect pests	Bogra & Gazipur
1374	Survey, monitoring and documentation of major insect pests of Betel leaf	<ul style="list-style-type: none"> Identification of insect pests attacking Betel leaf Determination of damage severity of insect pests 	Bogra, Natore
1375	Assessment of the pest status and seasonal fluctuation of major insect pests of some selected vegetables and fruits	<ul style="list-style-type: none"> To record the severity of damage of insect pests of vegetables and fruits at different locations of the country. To document the seasonal fluctuation of the major insect pests 	Gazipur
1376	Development of an integrated pest management approach for the control of insect pests of stored maize	To develop an IPM package for the control of stored maize pests	Gazipur
1377	Development of integrated pest management approach (es) for pulse beetle, <i>Callosobruchus chinensis</i> (L.) infesting stored chickpea	To develop an IPM package for the management of <i>C. chinensis</i> (L.) infesting stored chickpea	Gazipur
1378	Assessment of the pest status and seasonal fluctuation of major insect pests of stored wheat and mung bean	<ul style="list-style-type: none"> To document stored wheat and mungbean pests and their infestation status To observe the seasonal fluctuation of wheat and mung bean pests in the storage 	Gazipur
1379	Study on the generation wise parasitism efficacy of larval parasitoid, <i>Bracon hebetor</i>	<ul style="list-style-type: none"> To determine the generation wise parasitism efficacy of mass reared <i>Bracon hebetor</i> To find out the most virulent generation of <i>Bracon hebetor</i> 	Gazipur
1380	Study on the efficacy of earwigs for the management of different borers and sucking pests under laboratory and field condition	<ul style="list-style-type: none"> To determine the efficacy of earwigs for the management of different borers and sucking pests To document the field release techniques of earwigs 	Gazipur
1381	Evaluation of bio-pesticides and botanicals for the management of lac predators and their safety to lac insect	To develop effective and safe management approach against predators attacking lac insects in the field	Chapai Nawabganj

SI No.	Research Title	Objective(s)	Location
1382	Assessment of sources of lac predators <i>Eublemma amabilis</i> and <i>Pseudohypatopa pulverea</i> in the field	To know the sources of predator attack in the field	Chapai Nawabganj
1383	Evaluation of mulches for enhancing lac production in ber under rainfed condition in Bangladesh	<ul style="list-style-type: none"> To observe the yield potentiality of lac in rainfed condition To select suitable mulch for yield potentiality of lac in rainfed condition 	Chapai Nawabganj & Rajshahi
1384	Farmers participatory trial on the predator management of lac insect in kartiki crop season	To develop effective and safe management approach against predators attacking lac insects in the field	Nachol, Chapai Nawabganj, and Rajshahi
1385	Determination of pre harvest interval for emamectin benzoate, voliam flexi, fenvalerate and carbosulfan in major vegetables	To determine the pre harvest interval (PHI) for Emamectin benzoate, Voliam flexi, Fenvalerate and Carbosulfan in cauliflower, cabbage, country bean, yard long bean, brinjal, chilli and red amaranth.	Gazipur
1386	Study on residue degradation of newly registered along with some commonly used insecticide groups in selected vegetables under supervised field trial	To determine the rate of degradation of residue level of Emamectin benzoate, Voliam flexi (thiamethoxam + chlorantraniliprole), fenitrothion, carbosulfan & carbofuran in chilli, bitter melon, bean, brinjal, cauliflower and cabbage	Gazipur
1387	Decontamination of several insecticide residues on major vegetables	To quantify the residue loss through washing with different solution (NaCl, vinegar, hot water etc), peeling, and cooking in different way	Gazipur
1388	Decontamination of several insecticide residues on dry fish	To quantify the residue loss through washing with different solution (NaCl, vinegar, hot water etc) in different way	Gazipur
1389	Development of protocols for residue analysis of some newly registered and commonly used insecticide groups in selected vegetables	<ul style="list-style-type: none"> To establish base line information for some newly registered insecticides viz. emamectin benzoate, Voliam flexi (thiamethoxam + chlorantraniliprole) cartap and carbosulfan To develop suitable protocol for the detection and quantification of residue of Emamectin benzoate, Voliam flexi (thiamethoxam + chlorantraniliprole) Cartap and Carbosulfan in bean, brinjal, cauliflower and chilli 	Gazipur
1390	Analyzing samples of major vegetables and fruits collected from different stages of marketing channel for multi residue of different insecticides	To detect and quantify the amount of left over residue of pesticide in different vegetable and fruit samples collected from farmer's field and local market of different regions of Bangladesh	Gazipur

SI No.	Research Title	Objective(s)	Location
1391	Determination of pesticide residue in chilli and turmeric (powder and dried) collected from different regions of Bangladesh	To detect and quantify the amount of left over residue of pesticide in different chilli and turmeric (powder and dried) collected from different regions of Bangladesh.	Gazipur
1392	Quantification of pesticide residue in herbal medicine collected from different markets of Bangladesh	To detect and quantify the amount of pesticide residue in herbal medicine samples collected from different markets of Bangladesh	Gazipur
1393	Collection of farmgate and marketed dry fish across the country and analyzing for residue detection and quantification of pesticides	<ul style="list-style-type: none"> To detect the insecticide residue levels in farmgate & marketed dry fish and To quantify left over insecticides in dry fish (viz. chepa, loitta, shidhol, chhury, dry shrimps, paisha, mola, etc.) samples 	Gazipur
1394	Testing the purity of different marketed pesticides	<ul style="list-style-type: none"> To quantify the active ingredient present in different marketed brands of selected insecticide groups To understand the purity level of different formulated products of different pesticide group 	Gazipur

PLANT PATHOLOGY DIVISION

1395	Study on the seed borne fungi of some selected vegetables	<ul style="list-style-type: none"> To identify fungi associated with seed. To determine their pathogenicity as seed-borne 	Gazipur
1396	Optimization of mycelia concentration of Stemphylium botryosum in developing Stemphylium blight in lentil	<ul style="list-style-type: none"> To develop an artificial inoculation protocol for screening lentil genotypes against Stemphylium disease To optimize mycelial concentration of Stemphylium botryosum for effective disease development 	Jessore
1397	Prevalence of fungi associated with sesame seed	<ul style="list-style-type: none"> To study the health and quality of sesame seed To help the farmers with effective measure 	Sesame growing area
1398	Prevalence of fungi associated with maize grain	<ul style="list-style-type: none"> To know the prevalence of seed borne fungi on maize To observe the disease transmission percentage from seed to seedling 	Gazipur
1399	Standardization of effective culture media isolation of Phytophthora infestans	<ul style="list-style-type: none"> To evaluate the effective culture media To check the virulence of the pathogen 	Gazipur
1400	Prevalence of seed borne fungi of pulses crop	To know the prevalence of seed borne fungi of pulses crop	Gazipur
1401	Prevalence of seed borne pathogen associated with summer onion	To know the prevalence of seed borne fungi of summer onion	Gazipur

SI No.	Research Title	Objective(s)	Location
1402	Effect of date of sowing on purple blotch of onion seed crop	To know the effect of date of sowing on purple blotch of onion seed crop	Gazipur
1403	Management option of Sclerotinia rot of marigold	To find out effective management practices of Sclerotinia rot of marigold	Gazipur, Rangpur
1404	Management of white mold disease of lettuce	To find out the effective management of white mold disease of lettuce	Gazipur
1405	Study on the relationship of weather factors in developing Alternaria blight of Rapeseed-Mustard	To know the effect of weather factors in developing Alternaria blight of Rapeseed-	Jamalpur, Gazipur
1406	Effect of planting time on the late blight disease of potato in the resistant varieties / lines	To observe the effect of planting time on the late blight disease of potato in the resistant varieties / lines	Burirhat, Rangpur, Bogra
1407	Study on the intregation effect of planting time and spray schedule with different fungicides in controlling Stemphyllum blight of lentil	To find out the intregation effect of planting time and spray schedule with different fungicides in controlling Stemphyllum blight of lentil	Jessore
1408	Efficacy of new fungicides in controlling purple blotch of Onion	To find out effective fungicides in controlling purple blotch of Onion	Gazipur, Bogra
1409	Efficacy of new fungicides in controlling die back and anthracnose of chilli	To test the efficacy of new fungicides in controlling die back and anthracnose disease of chilli	Gazipur
1410	Straderization of spray schedule of two effective fungicides gainst Stemphyllum blight disease of lentil	To find out effective fungicides (s) against Stemphyllum blight disease of lentil	Gazipur, Ishurdi, Jessore
1411	Efficacy of different new fungicides in controlling Powdery mildew of Pumpkin	To find out effective fungicides in controlling Powdery mildew of Pumpkin	Gazipur, Jamalpur
1412	Effect of new fungicides in contolling leaf blight of wheat	To find out an effective fungicides in contolling leaf blight of wheat	Gazipur, Nashipur
1413	Efficacy of new fungicides in contolling Botrytis blight of Marigold	To test the efficacy of of new fungicides in contolling Botrytis blight of Marigold	Gazipur
1414	Post harvest disease management of Banana	<ul style="list-style-type: none"> To reduce the post-harvest loss of banana fruit To increase shelf-life and quality of banana fruit 	Gazipur

SI No.	Research Title	Objective(s)	Location
1415	Efficacy of fungicides in controlling white mould disease of bean and brinjal	To find out the appropriate management practices of the disease	Jamalpur
1416	Efficacy of fungicides for vine rot of pointed gourd	To study the efficacy of different fungicides for controlling vine rot of pointed gourd	Sherpur, Netrokona, Jamalpur
1417	Management of leaf blight utilizing host plant resistance and fungicide application	To find out the effective frequency of fungicides application for resistant varieties	Burirhat, Rangpur, Bogra
1418	Efficacy of fungicides to controlling major diseases of garden pea	To find out appropriate fungicides for controlling major diseases of garden pea	Rangpur
1419	Efficacy of fungicides in controlling anthracnose of litchi	To find out effective chemical against the anthracnose of litchi	Rajshahi
1420	Efficacy of new fungicides in controlling foot rot of Betelvine	To test the efficacy of new fungicides in controlling foot rot of Betelvine	Rajshahi
1421	Fungicidal management of country bean	To find out the effective fungicides(s) to control anthracnose of country bean	Chittagong
1422	Efficacy of different fungicides for Botrytis blight of Gladiolous	To find out suitable chemical fungicides for controlling Botrytis blight of Gladiolous	Jhikargasa
1423	Efficacy of different chemical fungicides on Alternaria leaf spot of Broccoli	To Study the efficacy of different fungicides on Alternaria leaf spot of Broccoli	Jessore
1424	Screening of organic composts for mass culturing of <i>Trichoderma harzianum</i> against <i>Sclerotium rolfsii</i>	<ul style="list-style-type: none"> To find out the appropriate compost materials for mass culture of <i>T. harzianum</i> isolates To evaluate formulated <i>Trichoderma</i> against soil-borne pathogens 	Gazipur
1425	Formulation of management package for foot and root rot disease of lentil	<ul style="list-style-type: none"> To find out effective management tools against foot and root rot disease of lentil To help sustainable production of lentil 	Gazipur
1426	Development of management package for foot & root rot and wilt diseases of chickpea	<ul style="list-style-type: none"> To find out effective management tools against foot and root rot disease of chickpea To help sustainable production of chickpea 	Gazipur
1427	Effect of Tri-compost against seedling blight disease of Barley caused by <i>Sclerotium rolfsii</i>	<ul style="list-style-type: none"> To find out the efficacy of <i>Trichoderma</i> against the pathogen To identify suitable method for soil-borne pathogen 	
1428	<i>In-vitro</i> study on antagonism of rhizosphere bacteria against foot root causing pathogen, <i>Sclerotium rolfsii</i> of lentil	Isolation of antagonistic bacteria from rhizosphere of crops and weeds against <i>S. rolfsii</i> of lentil	Gazipur

SI No.	Research Title	Objective(s)	Location
1429	Biological control of foot rot caused by <i>Sclerotium rolfsii</i> of lentil	To reduce the pre and post emergence seedling mortality by applying antagonistic bacteria due to foot rot disease of lentil	Gazipur
1430	Control of foot rot caused by <i>Sclerotium rolfsii</i> of Bushbean	To reduce the pre and post emergence seedling mortality due to foot rot disease of Bushbean	Gazipur, Ishurdi
1431	Commercial formulation development of plant products for the management of seedling diseases of vegetables crops	<ul style="list-style-type: none"> To develop a product for the management of seedling diseases To test the efficacy of tablet against the seedling diseases 	Jamalpur, Gazipur
1432	Application of biological soil disinfestations (BSD) for controlling wilt of Tomato	<ul style="list-style-type: none"> To introduce BSD in the field To control wilt diseases of Tomato 	Rahmatpur
1433	Management of Fusarium wilt diseases of water melon	To find out the effective disease management packages (s) against fusarium wilt of water melon	Chittagong
1434	Management of Purple blotch diseases of summer onion by using selected plant extract	To find out the suitable biological control measures of Purple blotch diseases of summer onion	Gazipur
1435	Management of crown and root rot disease (<i>Rhizoctonia solani</i>) of Radish	To reduce the pre and post emergence seedling mortality due to crown and foot rot diseases of Radish	Gazipur
1436	Development of eco-friendly management packages for panama and sigatoka diseases of Banana	<ul style="list-style-type: none"> To find out effective management packages tools for panama and sigatoka diseases of Banana To develop an IPM packages technology for healthy banana production 	Pabna
1437	Integrated Management Foot Rot Disease (<i>Sclerotium rolfsii</i>) of Groundnut	To find out the integrated management practice to control foot rot disease of groundnut	Gazipur
1438	Development of integrated management packages in controlling gummosis (<i>Phomopsis artocarpii</i>) and deformation of Jackfruit	<ul style="list-style-type: none"> To find out effective management tools against gummosis (<i>Phomopsis artocarpii</i>) and deformation of Jackfruit To develop an IPM packages technology for healthy Jackfruit production 	Gazipur
1439	Integrated management of Betel vine diseases	To find out the effective management packages for controlling Betel vine diseases	Rahmatpur
1440	Integrated Management of stem rot (<i>Macrophomina phaseolina</i>) in Sesame	To find out effective management package against sesame diseases	Rahmatpur
1441	Integrated Management of Wilt Complex Disease of Chili	To find out the effective management practices against wilt disease of chili.	Ishurdi, Pabna and Shibganj, Bogra

SI No.	Research Title	Objective(s)	Location
1442	Screening of neem products against root-knot nematode, <i>Meloidogyne incognita</i> of tomato	<ul style="list-style-type: none"> To evaluate neem byproducts for management of root knot nematode of tomato To identify suitable neem byproduct against the nematode 	Gazipur
1443	Efficacy of organic soil amendment and nematicide against root-knot nematode (<i>Meloidogyne</i> spp.) of bitter gourd and white gourd	To develop integrated management for the control of root-knot nematode in the early and late varieties of country bean	Gazipur
1444	Management of Root-Knot nematode of Tomato by using some selected plant extract	To find out the suitable biological control measure against root-knot nematode of tomato	Ishurdi, Pabna
1445	Management of Root-Knot Disease of Egg Plant Through the Application of Nematicides, and Different Organic Amendments	To find out the effective management practices in controlling root-knot disease of egg plant	Ishurdi, Pabna
1446	Screening of Tomato lines / varieties against bacterial wilt disease	To find out resistant lines / varieties against the disease	Gazipur
1447	Collection, isolation and identification of <i>Pseudomonas fluorescence</i>	<ul style="list-style-type: none"> Collecting <i>Pseudomonas fluorescence</i> isolate collected from different location Identifying the isolated through different physiological and biochemical tests 	Different parts of the country
1448	Screening of Ginger lines / varieties against bacterial wilt disease	To find out resistant lines / varieties against the disease	Gazipur
1449	Yield loss assessment of ginger due to Bacterial rot based on physical seed sorting.	<ul style="list-style-type: none"> To estimate yield reduction of ginger due to rhizome rot based on percent seed infection To suggest suitable seed that will be helpful for minimization of loss 	Gazipur
1450	Identification and molecular characterization of Cucumber mosaic virus of Banana	The detailed characterization of CMV infecting banana in Bangladesh	Gazipur
1451	Characterization of cucumber mosaic virus and Bean yellow mosaic virus in Chickpea	To characterize CMV and BYMB in chickpea	Gazipur
1452	Effect of planting dates on Cucumber mosaic virus in chilli	<ul style="list-style-type: none"> To evaluate the disease incidence at different planting dates To study the relationship between vector (Aphids) population and disease incidence 	Gazipur

SI No.	Research Title	Objective(s)	Location
1453	Screening of pumpkin genotypes against Cucumber mosaic virus (CMV) through artificial inoculations	To find out CMV resistant / tolerant pumpkin genotype or line	Gazipur
1454	Evaluation of okra varieties resistant to <i>Okra yellow vein clearing mosaic virus</i> (OKYVCMV).	To find out OKYVCMV resistant/ tolerant okra variety/line	Gazipur
1455	Molecular characterization and immune- nucleo based diagnosis of major viruses affecting pumpkin in Bangladesh	<ul style="list-style-type: none"> To characterization of major viruses that infecting that infecting pumpkin To know the major viruses as well as their genetic variability 	Gazipur
1456	Study of Cultural Management of Virus Diseases of Watermelon through Intercropping with Different crops	To demonstrate its effectiveness in the field	RARS, Rahmatpur
1457	Screening of lentil entries against stemphylium blight disease through artificial inoculation.	To find out resistant source of lentil genotypes against stemphylium blight disease	Gazipur
1458	Screening of tomato lines /varieties against early blight disease under field condition	To find out resistant lines/varieties against the foot rot disease	Gazipur
1459	Screening of bush bean lines/varieties against foot rot disease caused by <i>Sclerotium rolfsii</i>	To find out resistant lines/varieties against the foot rot disease	Gazipur
1460	Screening of groundnut germplasm against white mould disease under field conditionlines /varieties against early blight disease under field condition	To find out resistant source of groundnut genotypes against white mould disease	Gazipur
1461	Survey, collection, isolation and identification of bacterial wilt pathogen from different host	To identify and preserve the different isolates of pathogenic bacteria	Gazipur
1462	Study on incidence of nematode diseases and identification of nematode disease of potato	To know the status of nematode disease of potato in Bangladesh	Gazipur

SI No.	Research Title	Objective(s)	Location
1463	Survey, collection, isolation and identification of major diseases of Gerbera flower	To know new disease as well as previously recorded diseases of Gerbera flower	Gerbera growing areas
1464	Survey on the fruit and vine caused by Phytophthora sps. of Pointed gourd	<ul style="list-style-type: none"> To observe the incidence and severity of Phytophthora Sps. Causing disease To identify the causal organisms of the disease To collect information about fruit and vine rot disease of Pointed gourd from farmer experience through questionnaire 	Jessore, Rajshahi, Comilla, Gazipur
1465	Survey on disease of different fruit crops	<ul style="list-style-type: none"> To identify new diseases as well as existing diseases of different fruit crops To assess the disease status of different fruit crops 	Gazipur, Ishardi, Thakurgaon, Dinajpur, Tangail, Mymensingh, Rajshahi, Rangpur, Barishal and Khagrachari
1466	Survey on Choanephora Blight disease of Chilli	To assess the disease status of Choanephora Blight disease of Chilli	Jamalpur, Sherpur, Netrokona, Kishoreganj, Mymensingh
1467	Survey, isolation and identification of white mold diseases of different crops at Pabna region	<ul style="list-style-type: none"> To identify white mold disease from different crops To isolate white mold pathogen from different crops 	Ishurdi, Pabna
1468	Survey of major vegetable and fruit diseases at Pabna region	To identify new diseases as well as existing diseases of the region	Ishurdi, Pabna
1469	Survey of Sclerotinia disease of different crops in Rangpur and Dinajpur district	To assess the status of Sclerotinia disease in this region	Rangpur & Dinajpur
1470	Survey and identification of causal pathogen of black spot of litchi at Rajshahi region	<ul style="list-style-type: none"> To identify the causal agent of black spot of litchi To know the incidence of black spot of litchi 	Rajshahi

PLANT PHYSIOLOGY DIVISION

1471	Evaluation of light interception, radiation use efficiency, growth and yield of BARI Alu-13 under variable plant density	To enhance the light interception, RUE growth and yield of BARI Alu-13 and to find out the optimum plant spacing.	Gazipur
1472	Effect of post-anthesis drought stress on kernel	To evaluate drought stress effect on kernel development and stem reserve	Gazipur

SI No.	Research Title	Objective(s)	Location
	development, dry matter remobilization, and grain yield of hybrid maize	remobilization to grain • To evaluate drought stress effect on growth and yield of hybrid maize	
1473	Growth, yield and dry matter partitioning of field pea as influenced by shoot clipping	• To evaluate growth and yield of different field pea varieties • To investigate the relation between source and sink	Gazipur
1474	Screening of wheat genotypes for drought tolerance at vegetative stage	To examine and identify drought tolerance wheat genotypes	Gazipur
1475	Screening of wheat genotypes against salinity tolerance at early vegetative stage	To evaluate and identify the salinity tolerance wheat genotypes	Gazipur
1476	Phenological development and growth indices of potato varieties under different planting date	To investigate the changes of growth and phenological development indices of potato varieties under optimum to late planting condition	Gazipur
1477	Evaluation of growth and drought tolerance indices of selected wheat genotypes under variable soil moisture regimes	• To find out suitable wheat genotype(s) for growing drought prone environment • To investigate the changes in growth associated with drought tolerance indices	Gazipur
1478	Adaptability study on selected salt tolerant mustard variety /genotype at saline prone area	• To find out the suitable mustard variety / genotype for growing in the saline prone areas • To investigate mechanism of salt tolerant	Satkhira
1479	Variability in growth and development of potato varieties at different regions of Bangladesh	• To evaluate growing degree days for different developmental stages • To determine the growth and development as well as yield of potato varieties in different Agro-Ecological Zones	Gazipur
1480	Developmental stages, growth indices and yield of hybrid maize cultivars as affected by growing seasons	To evaluate developmental stages, growth indices and yield in rabi and kharif-1 season	Gazipur and Jessore
1481	Study on phenology, growth and development of sweet corn at different water regimes	To evaluate the phenological changes in response to variable water regimes of sweet corn.	Gazipur
1482	Evaluation of growth and ion-uptake of selected wheat genotypes under saline conditions in pot culture	• To evaluate growth, development and yield performance of selected wheat genotypes under variable salinity levels • To determine Na ⁺ and K ⁺ uptake by different parts of the plant	Gazipur
1483	Evaluation of growth and yield of selected chickpea genotypes under rainfed condition	To evaluate growth, development and yield performance of chickpea genotypes under rainfed condition	Gazipur

SI No.	Research Title	Objective(s)	Location
1484	Physiological changes in wheat varieties/genotypes under high temperature stress at reproductive stage	To investigate the different physiological changes of wheat varieties subjected to high temperature stress at reproductive stage	Gazipur

SEED TECHNOLOGY DIVISION

1485	Seed yield and quality of pea as influenced by phosphorus level and Mycorrhizal association.	<ul style="list-style-type: none"> To determine the optimum Phosphorus level for quality seed production of pea To know the effect of mycorrhizal association for yield and seed quality of pea 	Gazipur
1486	Seed quality parameters of soybean as influenced by seed treating fungicides	To find out the effect of different chemical seed treatments as influenced by seed treating fungicides	Gazipur
1487	Yield and quality of garden pea seed as influenced by sowing dates	To find out optimum sowing time for higher seed yield and better quality of pea seeds	Gazipur
1488	Study on seed development pattern at Garden pea	To know the seed development pattern of pea	Gazipur
1489	Integrated weed management in summer Mungbean for quality seed production	To find out the suitable herbicides or weed management practice against weed in summer mungbean field for quality seed production	Gazipur
1490	Effect of seed soaking in water on the germination and plant establishment of French bean in the field	To evaluate the impact of soaking on the germination of French bean in the field	Gazipur
1491	Study on the storability to lettuce seed	To standardize storage method of BARI Lettuce seed to maintain the quality of seed	Gazipur
1492	Effect of plant spacing and fruit load on quality seed production of capsicum	To find out optimum spacing for quality seed production of capsicum	Gazipur
1493	Seed quality of capsicum as influenced by fruit retention per plant	<ul style="list-style-type: none"> Finding optimum number of fruit per plant to produce good quality seed Finding fruit number has any influence on the amount of viable seed production 	Gazipur
1494	Effect of fruit thinning on seed quality of eggplant (<i>Solanum melongena</i> L.) at different harvest	To investigate the effect of number of fruits retained per plant and number of harvest on seed quality of eggplant	Gazipur
1495	Salt (NaCl) effect salt concentrations regime on commercial hybrid maize seed germination parameters	<ul style="list-style-type: none"> To analyze the effect salt concentrations regime on commercial hybrid maize seed germination parameters To find out the better commercial hybrid maize tolerant to salinity 	

SI No.	Research Title	Objective(s)	Location
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VERTEBRATE PEST DIVISION

1496	Survey of squirrel damage in different fruits and vegetable in selected areas of Bangladesh	To know the status, incidence and extent of damage by squirrels in different fruits and vegetables	Rajshahi, Jessore, Moulvibazar & Chittagong
1497	Development of management package against squirrel damage in coconut trees	To know the extent of damage and to develop appropriate management technique against squirrel	Rajshahi, & Jessore
1498	Survey on bird damage in sprouting wheat in different wheat growing areas of Bangladesh	To know the incidence and amount of bird damage in sprouting wheat	Gazipur, & Dinajpur
1499	Efficacy of reflecting ribbon as repellent against pest birds in different crops	To find out the effectiveness of reflecting ribbon as bird repellent from crop's field	Gazipur
1500	Development of bird repellent (sub-lethal dose) for repelling bird in sprouting wheat in laboratory	To develop suitable bird repellent for managing bird in wheat field	Gazipur
1501	Development of non toxic glue for rat control	To develop effective formulation of rat glue for capturing rat	Gazipur
1502	Study on the effectiveness of newly designed single and multiple capture trap for controlling rats	Developing the effective single and multiple capture traps for controlling rats	Gazipur and Sreepur
1503	Study of rodent and bird pests status and their damage severity at BARI research field and stores.	Documentation of vertebrate pest species at BARI campus and to assess their damage severity	Gazipur
1504	Survey on rat damage in different planting/sowing methods in Rajshahi region	To know the comparative damage severity of rat in bed planting, line sowing and broadcasting of wheat	Rajshahi
1505	Efficacy of Bromadiolone 'Ratoma' for controlling	To evaluate the efficacy of 'Ratoma' for controlling rat	Gazipur and Dinajpur

POSTHARVEST TECHNOLOGY DIVISION

1506	Effect of blanching on the quality of frozen pea	<ul style="list-style-type: none"> To study the shelf life and nutritional quality of the frozen product Estimating the physico-chemical parameters 	Gazipur
1507	Determination of drying characteristic of jute leaf	To study the drying behaviour of jute leaf	Gazipur
1508	Standardization of sweet potato drinks	<ul style="list-style-type: none"> To find out the optimum formulation of sweet potato drinks Quantification of nutritional quality in sweet potato drinks 	Gazipur

SI No.	Research Title	Objective(s)	Location
1509	Standardization of packages for quality and shelf life of bitter gourd	<ul style="list-style-type: none"> To Standardize the packages and packaging materials for selected vegetables at farmers, traders and retailers level with a view to reduce the postharvest losses and increase their shelf life 	Gazipur
1510	Effect of chitosan coating on the quality and shelf life of mango/papaya	<ul style="list-style-type: none"> To study the shelf life and examine the nutritional quality of the mango/papaya using chitosan coating To minimize the postharvest losses of the product 	Gazipur
1511	Effect of control atmosphere storage on the quality and storage life of selected fruits	<ul style="list-style-type: none"> Estimating the physiological weight loss, fruit colour, firmness, fungal growth, decay percentage and shelf life of selected fruits Optimizing the level of CO₂ and O₂ for extending the shelf life of the produce 	Gazipur
1512	Quality retention in litchi cv. Bomby by postharvest treatments and modified atmosphere packaging	<ul style="list-style-type: none"> Estimating the physico-chemical parameters (weight loss, fruit color, firmness, vitamin A & C, percentage decay percentage, shelf life) of litchi stored in MA packaging Increasing the shelf life of litchi by postharvest treatments and modified atmosphere packaging 	Gazipur
1513	Effect of chlorination and packaging technique on the quality and shelf-life of guava	<ul style="list-style-type: none"> To extend the shelf life of guava To reduce postharvest losses 	Gazipur
1514	Effect of vapour heat treatment on storage quality of potato	<ul style="list-style-type: none"> To extend the shelf life at traditional storage/homestead storage/ ambient condition To reduce postharvest losses 	Gazipur
1515	Effect of vapour heat treatment on the postharvest quality of mango, litchi and tomato during storage	<ul style="list-style-type: none"> To extend shelf life at ambient storage condition To reduce postharvest losses 	Gazipur
1516	Effects of essential oil application on quality and shelf-life of mango and litchi	<ul style="list-style-type: none"> To control postharvest pathogenic rot To extend shelf life at market chain and modified atmospheric storage 	Gazipur
1517	Effect of postharvest UV-C treatments on the quality and shelf life of selected fresh fruits and vegetables	<ul style="list-style-type: none"> To determine effects of postharvest quality attributes of fresh fruits and vegetables To determine the shelf life 	Gazipur
1518	Study on the sprouting behavior of potato using chemicals and some essential oils during storage	<ul style="list-style-type: none"> To find out the storage temperature and time of sprouting in relation to potato varieties Selecting the best anti sprouting agent to minimize sprout production in potato 	Gazipur

SI No.	Research Title	Objective(s)	Location
1519	Estimation of food additives and contaminants in foods and spices	<ul style="list-style-type: none"> Developing suitable protocol for detection of different food additives and contaminants Quantification of no permitted colour substance and other adulterants in Ready to eat foods and spices 	Gazipur
1520	Determination of Formaldehyde in selected fruits and vegetables	<ul style="list-style-type: none"> Detection of formaldehyde in fruits and vegetables Quantification of naturally produced formaldehyde in the produce 	Gazipur
1521	Effect of ripening technique on postharvest quality of selected fruits (Banana, mango and tomato)	To assess the ripening technique for better postharvest quality	Gazipur

FARM MACHINERY AND POSTHARVEST PROCESS ENGINEERING DIVISION

1522	Adoption of two wheel tractor operated seeder in the rice-wheat cropping system	<ul style="list-style-type: none"> To demonstrate the seeder for wheat, maize, pulses, sesame and rice establishment To compare yield and economic benefit over conventional method of planting 	Rajshahi, Dinajpur, Manikgonj, Tangail and Bhola
1523	Adoption of two wheel tractor operated bed planter for up land crops	<ul style="list-style-type: none"> To evaluating the bed planter performance for better plant establishment in the farmer's field To compare the economic performance of the planter with conventional method 	Rajshahi, Manikgonj, Tangail Bhola and Dinajpur (WRC)
1524	On farm validation of two wheel tractor operated zero tillage planter for up land crops	<ul style="list-style-type: none"> To evaluate the performance of zero tillage planter for wheat, maize and pulses cultivation with utilization of residual soil moisture To compare the yield and cost performance of zero tillage planter over conventional method 	Rajshahi, Manikgonj and Dinajpur (WRC)
1525	Evaluation and extension of power tiller operated potato planter in the farmer's field	<ul style="list-style-type: none"> To demonstrate and evaluate the performance of the potato planter in the farmer's field To compare the cost of planting of the planter with conventional method 	Rajshahi, Pabna, Debigonj (OFRD) Tangail (OFRD) Rangpur and Debiganj
1526	Field performance evaluation of hand operated no-till seeder for crop establishment	<ul style="list-style-type: none"> To evaluate the field performance of hand operated no-till seeder to modify the no-till seeder if necessary 	Gazipur and Khagrachari
1527	Field performance of two wheel tractor operated bed planter for garlic production	<ul style="list-style-type: none"> To evaluate the machine performance for garlic production To compare the yield performance with conventional method 	Bogra

SI No.	Research Title	Objective(s)	Location
1528	Performance evaluation of a tractor mounted vegetable transplanter	<ul style="list-style-type: none"> To test and evaluate of the vegetable transplanter To analyze the economic performance of the transplanter 	Gazipur
1529	Detection of missing seeds using sensor guided instruments	<ul style="list-style-type: none"> To determine the number of missing seeds in each line of seeding To optimize the seed metering device for accuracy of seeding through sensor application 	Gazipur
1530	Development of a low cost battery operated rotary type weeder for upland crop	<ul style="list-style-type: none"> To design and develop of a DC motor operated dry land weeder To test and evaluate performances of weeder in dry land 	Gazipur
1531	Design and development of a manual NPK briquette applicator for dryland	<ul style="list-style-type: none"> To design and fabricate of manual dryland NPK briquette applicator To test and performance evaluation of the applicator 	Gazipur
1532	Improvement and performance evaluation of an axial flow pump	<ul style="list-style-type: none"> To design and fabricate of an axial flow pump for surface water irrigation To determine of optimum power, pump speed, discharge, fuel consumption and cost of irrigation by axial flow pump 	Gazipur
1533	Comparative performance evaluation of manual injector type USG applicator	<ul style="list-style-type: none"> To test and evaluate of different injector type USG applicators To analyze the economic performance of applicators 	Gazipur, Barisal, Pabna and Magura
1534	Design and development of a low cost boom sprayer for fruit tree and field crops	<ul style="list-style-type: none"> To develop a suitable low cost boom sprayer for fruit tree and field crops To test the sprayer performance for fruit tree and various crops 	Gazipur
1535	Development of a low cost two wheel tractor operated potato harvester	<ul style="list-style-type: none"> To develop a low cost two wheel tractor operated potato harvester To test the potato harvester performance both on station and in the farmer's field To compare the cost of harvesting by the harvester with conventional manual harvesting 	Rajshahi, Pabna, Tangail (OFRD), Pirgonj (OFRD), Rangpur and Debigonj
1536	Modification of mango harvester to improve its performance	<ul style="list-style-type: none"> To modify the existing mango harvester for easy harvesting of mango To evaluate the performance of the harvester To make an economic analysis of the harvester 	Gazipur
1537	Development of a low cost power operated sunflower thresher	<ul style="list-style-type: none"> To design and develop a power operated low cost sunflower thresher To test the sunflower thresher both on station and in the farmers' field To compare the cost of shelling with traditional methods 	Gazipur

SI No.	Research Title	Objective(s)	Location
1538	Development of a low cost two wheel tractor mounted mobile maize sheller	<ul style="list-style-type: none"> To design and develop a two wheel tractor mounted low cost mobile maize sheller to test the maize sheller both on station and in the farmers' field to compare the cost of shelling by the sheller with traditional methods 	Gazipur, Dinajpur, Rangpur, Thakurgoan and Manikgonj
1539	Improvement of existing BARI maize sheller for shelling unhusked maize cobs	<ul style="list-style-type: none"> to modify of existing BARI maize sheller for shelling unhusked maize cobs To test the performance of modified maize sheller for shelling husked and unhusked maize cobs 	Gazipur
1540	Design and development of a low cost power driven tomato and potato grader	<ul style="list-style-type: none"> To design and fabricate of a power driven tomato and potato grader To test and evaluate the performance of the grader 	Gazipur
1541	Design and fabrication of a washing machine for vegetables	<ul style="list-style-type: none"> To develop and fabricate a washing machine for carrot To evaluate the performance of the washing machine To make an economic analysis of the machine 	Gazipur
1542	Improvement and performance evaluation of a mini oil expeller	<ul style="list-style-type: none"> To design and fabricate of a mini oil expeller for expelling mustard and sesame seeds To evaluate performance of the oil expeller for expelling mustard and sesame 	Gazipur
1543	Modification of a hot water treatment plant for fruits	<ul style="list-style-type: none"> To redesign and fabricate of hot water treatment plant for fruits To evaluate the performance of the hot water treatment plant To make an economic analysis of the hot water treatment plant 	Gazipur
1544	Development and performance evaluation of a palm oil expeller	<ul style="list-style-type: none"> To design and fabricate of an oil expeller for palm fruit To evaluate performance of the oil expeller for expelling palm fruit 	Gazipur
1545	Design and development of a cashewnut sheller	<ul style="list-style-type: none"> To design and fabricate of a cashewnut sheller To test the performance of cashewnut sheller 	Gazipur, Ramgarh and Khagrachari
1546	Development of heat pump dryer for heat sensitive crops	<ul style="list-style-type: none"> To fabricate of a heat pump dryer suitable for heat sensitive crops To evaluate performance of a heat pump dryer for heat sensitive crops 	Gazipur
1547	Design and development of a cream separator	<ul style="list-style-type: none"> To design and fabrication of a cream separator To evaluate the performance of the cream separator 	Gazipur and Savar (BLRI)
1548	Design and development of a coconut tree climber	<ul style="list-style-type: none"> To design and fabricate of coconut tree climber To evaluate the performance of coconut tree climber To make an economic analysis of coconut tree climber 	Gazipur and Barisal

SI No.	Research Title	Objective(s)	Location
1549	Redesign and fabrication of a coconut dehusker	<ul style="list-style-type: none"> To design and fabricate of a coconut dehusker To evaluate the performance of the dehusker To make conomic analysis of the dehusker 	Gazipur and Barisal
1550	Performance evaluation of lithium ion battery for operation of BARI developed small powered machinery	<ul style="list-style-type: none"> To determine the charging and discharging characteristics of lithium battery loaded with BARI developed small powered machinery To test the performance of BARI developed small powered machinery operated by photovoltaic module and lithium battery 	Gazipur and Jamalpur
1551	Fabrication and dissemination of solar tunnel dryer for drying of chilli in farmers' field in Bogra	<ul style="list-style-type: none"> To fabricate of a solar tunnel dryer suitable for drying of chilli To test the dryer for drying of chilli at farmer's field To compare the dryer performance and quality of the dried chilli with traditional farmers practice 	Bogra
1552	Training and demonstration on BARI developed farm machinery and postharvest equipment	<ul style="list-style-type: none"> To demonstrate and transfer newly developed farm machinery in farmers' fields To development of the skillness of the operator To disseminate of the machines to the farmers and users 	Gazipur, RARS, & Substations and BARI technology village
1553	Technical support to manufacturers for machinery development and fine tuning of existing machines	<ul style="list-style-type: none"> To provide machinery functional parts to manufacturers for better understanding To duild up manufacturing skill of technical staff for large scale machinery production 	Rajshahi , Dinajpur, Jamalpur and Bogra
1554	Design and establishment of a 'Tillage-cum-Seeding Laboratory' at the FMPE Division for advanced farm machinery research	Design and construct a 'Tillage-cum-Seeding Laboratory' at the FMPE Division to allow preparation of desired soil condition and test machinery at varying operational parameters and settings	Gazipur
1555	Improvement and validation of BARI seeder for grain crops under different cropping patterns and soil conditions	Design an improved rotor to allow traditional full disturbance soil tillage and strip-tillage while minimizing the peak power requirement and improve uniformity of engine loading	Gazipur, Rangpur, Patuakhali and Rajshahi
1556	Development of sludge remover and sludge management system for better performance of intensive aquaculture	Designing and fabrication of a sludge remover and sludge	Gazipur, Mymensingh and Jessore

IRRIGATION AND WATER MANAAGEMENT DIVISION

1557	Effect of deficit irrigation on the yield of wheat on raisedbed	<ul style="list-style-type: none"> To determine the effect of deficit irrigations on the growth and yield of wheat To relate soil moisture content behavior with the changing climatic parameters 	Ishurdi, Gazipur, Pabna
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SI No.	Research Title	Objective(s)	Location
1558	Effect of irrigation and mulch on the yield of maize in coastal areas	<ul style="list-style-type: none"> To determine the effect of straw mulch and irrigation levels on the yield of maize To investigate the soil moisture content and water use efficiency during the growing stages of maize 	Gazipur, Barisal
1559	Effect of alternate wetting and drying furrow irrigation on the yield and water use efficiency of maize	<ul style="list-style-type: none"> To assess the crop performance To evaluate the water and fertilizer use efficiency To compare the economic feasibility in response to irrigation methods 	Gazipur, Dinajpur
1560	Growth, yield and quality of sweet orange as influenced by timing of fertilizer application, different methods and amount of irrigation	<ul style="list-style-type: none"> To determine the appropriate irrigation schedule and method To find out the critical stages to irrigation To find out the proper timing of fertilizer application to trees and To find out the interaction of nutrient, irrigation, method and yield 	Gazipur
1561	Growth, yield and quality of mandarin as influenced by different methods and amount of irrigation	<ul style="list-style-type: none"> To determine the appropriate irrigation schedule To predict the effectiveness of methods and amount of irrigation for producing high quality mandarins 	Moulvibazar
1562	Technical and economical feasibility of solar pump irrigation for crop cultivation in comparison with other power sources	<ul style="list-style-type: none"> To assess the technical performance of the solar, diesel and electric operated pumps To know the comparative economic advantages of the irrigation pumps 	Bogra, Shirajganj, Dinajpur, Naogaon
1563	Assessment of water resources for sustainable crop production in Rajshahi region	<ul style="list-style-type: none"> To assess quantitatively the available water resources in Rajshahi region To recommend plan for sustainable use of water for crop production 	Rajshahi, Naogaon, Chapinawabganj
1564	Yield and quality of watermelon as affected by different levels and methods of irrigation in saline prone areas	<ul style="list-style-type: none"> To evaluate the effects of different water application rates and methods on yield, quality and water use efficiency of watermelon To study the feasibility of saline water irrigation in coastal areas To find out cost effectiveness of irrigation systems 	Gazipur, Patuakhali, Satkhira
1565	Development of appropriate water management practices for increasing crop productivity in saline area	<ul style="list-style-type: none"> To develop suitable water management practices based on major cropping pattern in saline area To develop suitable and profitable cropping pattern considering the spatial and temporal characteristics of salinity and in terms of water use 	Sathhira
1566	Impact of irrigation water salinity on growth, yield and water use of wheat	<ul style="list-style-type: none"> To study the impact of soil salinity on crop physiological characters To find out grain yield and water use of wheat crop at different salinity levels 	Gazipur

SI No.	Research Title	Objective(s)	Location
1567	Screening of summer chili lines against water-logging	<ul style="list-style-type: none"> To find out the water logged tolerant summer chilli line among the collected germplasms To identify the critical stages of summer chilli line to water logging 	Gazipur
1568	Sustainable crop production in drought and saline coastal areas of Bangladesh under changing climate	<ul style="list-style-type: none"> To study the pattern based water management trials for different crops in saline and drought prone areas to mitigate the effect To train farmers and stakeholders on improved crop management in drought and saline prone areas To involve large group of farmers on improved crop management under pilot production programme 	Barguna, Satkhira, Hhulna, Kustia, Rajshahi, Rangpur
1569	Response to available soil moisture on growth and yield of chickpea	<ul style="list-style-type: none"> To find out the response to soil moisture on growth and development of Chickpea To find out critical stages to water stress for chickpea 	Gazipur, Rajshahi
1570	Estimation of crop co-efficient values of soybean by lysimeter study	To estimate crop coefficient values of soybean at different growth stages, such as initial development, mid season and late season by lysimeter study	Gazipur
1571	Estimation of crop co-efficient values of Jute by lysimeter study	To estimate crop coefficient values of Jute at different growth stages, such as initial development, mid season and late season by lysimeter study	Gazipur
1572	Effect of water stress on growth and yield of mustard	<ul style="list-style-type: none"> To determine the seasonal evapo-transpiration, water productivity and crop water production function To determine the effect of deficit irrigations on components of growth, oil content, and yield response to water deficit at different growth stages To compare the economic feasibility of full irrigation and deficit irrigation 	Gazipur, Rajshahi
1573	Testing of aqua crop model in simulating yield response of maize to full and deficit irrigated conditions in Bangladesh	<ul style="list-style-type: none"> To validate aqua crop model in simulating biomass and grain yield, and water productivity of maize To evaluate the effectiveness of the model in Bangladesh condition 	Gazipur
1574	Response of growth and yield of onion to varying levels and frequencies of irrigation with sprinkler system	<ul style="list-style-type: none"> To evaluate the effects of different irrigation frequencies and levels on the growth and yield of onion under sprinkler system To find out the effect of changes of the irrigation frequency on the components of water balance To assess the cost- effectiveness of the sprinkler system 	Gazipur
1575	Effect of alternate furrow irrigation on growth, yield and quality of potato	<ul style="list-style-type: none"> To assess the crop growth and yield To assess the water use efficiency with respect to irrigation levels and methods To determine the comparative effect of irrigation levels and methods on quality To evaluate the cost effectiveness 	Gazipur

SI No.	Research Title	Objective(s)	Location
1576	Study the water management for four crop based cropping pattern in Barind area	<ul style="list-style-type: none"> To determine water requirement and water use pattern for four crop based cropping pattern To make effective utilization of profile soil moisture and available water resources To identify and recommended the most profitable cropping for the area in terms of water use 	Barind, Rajshahi
1577	Effect of saline and fresh water use for irrigation on the yield of Tomato	<ul style="list-style-type: none"> To find out the potentiality of saline water irrigation to tomato To determine the effect of salinity at different stages of tomato 	Patuakhali
1578	Conjunctive use of saline and fresh water for crop irrigation in coastal areas of Bangladesh	<ul style="list-style-type: none"> To understand the effects of variables quantities of saline water irrigation on soil salinity, and yields and yield attributing characters of mustard and maize To findout the best irrigation regimes for cultivating crops in the coastal Bangladesh using abandon saline and limited fresh water sources 	Satkhira
1579	Cropping system intensification in the salt-affected coastal zones of Bangladesh and West Bengal, India	<ul style="list-style-type: none"> Develop a regional understanding of the surface water and ground water resources, recharge / discharge mechanisms and trends in the case study Develop a detailed understanding of the salt and water dynamics of the polders and develop pre- monsoon and post- monsoon groundnut abstraction regimes that improve groundnut quality and availability during the dry season Develop detailed understanding of crop production responses to various improved polder water management strategies Test suitable cropping pattern options and polder water and salt management strategies through field evaluation and co-learning with farmers 	Barguna and Satkhira

AGRICULTURAL STATISTICS AND INFORMATION AND COMMUNICATION TECHNOLOGY (ASICT) DIVISION

1580	Crop type mapping by using very high resolution satellite and airborne remote sensing data in the southern delta	<ul style="list-style-type: none"> To identify crop types under cultivation in the study area To develop thematic map layers for agricultural crop 	Southern coastal zone of Bangladesh
1581	Crop forecasting and loss assessment in flash-flood prone <i>haor</i> regions through remote sensing technique	<ul style="list-style-type: none"> To develop land use and cover classification of the haor area To estimate area, coverage and yield of major field crops To estimate crop loss caused by sudden flash-flood To develop crop forecasting and loss assessment method for the haor regions 	Seven districts of haor region: Sylhet, Sunamgonj, Habiganj, Moulvibazar, Netrokona, Kishorganj and Brahmanbaria

SI No.	Research Title	Objective(s)	Location
1582	Comparison of Spectro-Temporal Signature of Major Agricultural Crops of Bangladesh	<ul style="list-style-type: none"> To collect reference spectro-temporal signature of major crops round the year To identify features in distinguishing spectro-temporal signature for recognizing/classifying major crops. 	BARI Research Fields and nearby locations at HQ and different RARS, ARS, RHRS etc
1583	GIS based Land Suitability Assessment for Major Crops	<ul style="list-style-type: none"> To assess land suitability for major crops and To generate major cropping pattern using GIS based model To validate the GIS based model output 	Tangail Sadar / Delduar / Nagarpur Upazila of Tangail Districts or any upazila.
1584	Development of online system for data collection, documentation and mapping of mustard in Chalan Beel area of Bangladesh	<ul style="list-style-type: none"> To implement the developed online system for data collection and documentation of mustard To determine the variety wise area coverage of mustard in block, union, upazila and district 	Taras and Gurudaspur (Sirajgonj) and Natore
1585	Implementation of developed BARI labour management system	<ul style="list-style-type: none"> To implement the developed software at BARI To expand labour management software at outer stations of BARI 	Gazipur, RARS and Crop Centers
1586	Digitization of BARI H/Q Farm.	<ul style="list-style-type: none"> Digitization of different experimental plots, research centers and natural resources of BARI H/Q and To add database of each feature (line, point & polygon) including land, soil and climate parameters information 	Gazipur
1587	Information of BARI technology at the farmers' doorstep through mobile apps	<ul style="list-style-type: none"> To develop Mobile application of BARI developed technology To available crop production package at right time at stake holder's door step 	Gazipur
1588	Development of geodatabase for haor region for sustainable intensification of agriculture	<ul style="list-style-type: none"> To develop thematic map layers of seasonal landuse and cover dynamics of the study area using remotely sensed satellite imagery and GIS To identify fallow Kanda lands in the Haor area available for expansion of cultivation To suggest suitable crop (s) for the haor regions using GIS for sustainable intensification 	North-Eastern haor region covering Kishoregonj, Netrokona, Sunamgonj, Habigonj, Moulvibazar, Sylhet and Bhrahmanbaria districts of Bangladesh
1589	ICT Services during 2015-2016	<ul style="list-style-type: none"> To provide ICT services at BARI (H/Q), RARS and Crop Centers 	Gazipur (HQ), RARS (6) and Crop Centers (2)

SI No.	Research Title	Objective(s)	Location
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AGRICULTURAL ECONOMICS DIVISION

1590	Assessment of Socioeconomic Impacts of Introducing Lentil and Mungbean into Rice-based Cropping Systems in Western Bangladesh	<ul style="list-style-type: none"> To know the adoption status of introduced improved pulses technologies at farm level. To estimate the socioeconomic impacts of using improved pulses technologies. To find out the problems and constraints of adopting improved pulses technologies. To recommend policy guidelines for successful implementation of the improved pulses technologies at farm level. 	Rajshahi, Natore, Pabna, Kushtia, Chuadanga, Jhenaidah, Magura and Jessore
1591	Estimates of Changes in Agricultural Returns due to Cropping Pattern Changes	<ul style="list-style-type: none"> To estimate the changes in the value of agricultural output resulting from changes in cropping patterns. To find out the major cropping patterns in two periods. To determine the factors influencing the farmers to change the cropping patterns. 	Rajshahi region
1592	Modern Potato Varieties Adoption in Bangladesh: Socioeconomic Assessment of Farmers Experiences and Resource Use Efficiency	<ul style="list-style-type: none"> To estimate the determinants of adopting modern potato; To examine the relative profitability and determinants of modern potato varieties productivity, allowing for production inefficiency at the level of the individual farmer; To assess the comparative farm level production performance (technical efficiency scores) of modern and traditional varieties of potato cultivating farmers; 	Bogra and Rangpur
1593	Consequences of Drought in Maize Production in Selected Areas of Bangladesh	<ul style="list-style-type: none"> To estimate the cost and return of maize in drought prone and favourable environment; To assess effect of drought in maize production and livelihood pattern of the farmers; To explore the coping strategies of the farmers in drought prone areas; and To examine the technical efficiency of maize farmers under changing climatic conditions. 	Bogra, Rangpur, Rajshahi and Chapai Nawabganj
1594	Adoption of Sandbar Cropping Method in Pumpkin Cultivation at Char Areas in the Northern Region of Bangladesh	<ul style="list-style-type: none"> To assess the adoption status of sandbar cropping method in pumpkin cultivation; To find out factors responsible for adoption and non-adoption and; To evaluate the impact of sandbar cropping on income and livelihood of the farmers. 	Rangpur, Lalmonirhat and Gaibandha
1595	Production and Marketing of Mandarin in Selected Areas of Bangladesh	<ul style="list-style-type: none"> To know the socio-economic status of mandarin growers. To estimate the financial profitability of mandarin production To assess the marketing system of mandarin To identify the problems and constraints of mandarin production and marketing 	Sylhet, Panchagarh and Khagrachari

SI No.	Research Title	Objective(s)	Location
1596	International Competitiveness and Varietal Adoption of Major Pulse Crops in Bangladesh	<ul style="list-style-type: none"> To estimate the import substitution status of major pulse crops To know the varietal adoption of major pulse crops at national level To examine the policy implications arising from the findings 	Jessore, Faridpur, Rajshahi, Kushtia, Pabna, Chapai Nawabgonj, Dinajpur and other related districts.
1597	A Baseline Survey on the Mango and Winter Tomato Supply Chains in Selected Areas of Bangladesh	<ul style="list-style-type: none"> To assess the status of market opportunities for winter tomatoes and mangoes in Bangladesh To assess the knowledge, attitude and practices (KAP) of key stakeholders (producers, distributors and users) toward food safety, food quality, post-harvest handling, and post-harvest losses in mango and winter tomato supply chains 	Rajshahi, Chapai Nawabgonj, and Bogra
1598	Accessibility to Super Market Value Chain and Price Distortion of Smallholder Vegetable Farmers in Bangladesh	<ul style="list-style-type: none"> To map the super market value chain of vegetables To determine value addition at different levels in the value chain To estimate the determinants of access to super market To find out the responsible factors affecting the price of vegetables To identify the constraints of accessing super market 	Narsindi, Gazipur and Comilla
1599	Assessment of BARI Released Vegetable Varieties in the Seed Market: Availability and Farmer's Choice	<ul style="list-style-type: none"> To determine the factors of choosing crop variety by the farmers from the seed market To sketch market map of BARI released varieties in the seed market and farmers hand To assess demand, availability and accessibility of BARI released varieties in the seed market To evaluate the marketing and accessibility problems and suggest policy reform options for the expansion of BARI variety in the farmer's field 	Jessore, Bogra, Rangpur, Rajshahi, Comilla and Chittagong
1600	Adoption and Profitability of Wheat Varieties in Jamalpur and Sherpur District	<ul style="list-style-type: none"> To know the adoption of improved wheat varieties and their management technologies at farm level To estimate the financial benefits of wheat varieties To determine the input-output relationship of improved wheat cultivation To identify the problems and constraints and also make some recommendations for higher production 	Jamalpur and Sherpur

SI No.	Research Title	Objective(s)	Location
1601	Production and Marketing Constraints of Major Pulses in Char Land of Jamalpur and Sherpur Districts	<ul style="list-style-type: none"> To evaluate the position of pulses in the present farming system of char land To study the agro-technology of pulse production by farmers To Determine profitability of pulses cultivation at farm level To identify the social, economic and biological problems and constraints faced by the farmers To make policy and suggest some recommendations for policy makers, researchers and extension workers to enhance pulse production 	Jamalpur and Sherpur
1602	Existing Value Chain Assessment of Date Palm in Bangladesh.	<ul style="list-style-type: none"> To analyze the existing value chain of date palm marketing To assess the value addition at different levels of value chain To assess the marketing cost and margin and prices spread in different level 	Jessore, Magura and Jhenaidah
1603	A Socioeconomic Study of Gher Based Agriculture in Bangladesh	<ul style="list-style-type: none"> To analyze the socioeconomic characteristics of Gher farmer To assess the existing cropping pattern on the Gher land To assess the impact of Gher based system on food security To suggest some policy guidelines 	Khulna, Bagherhat and Satkhira
1604	Determinants and its Impact of Labour Migration from Agriculture to Non-Agricultural Sector in Some Selected Coastal Region of Bangladesh	<ul style="list-style-type: none"> To know the socioeconomic information of the farm household To identify the determinants of labour migration from agricultural to non-agriculture To determine the social, economic and agricultural impact of labour migration To make some policy recommendation on the basis of the study 	Barisal, Patuakhali and Jhalokathi
1605	Identifying best Agricultural Practices, Cropping Pattern and Innovation and their Socioeconomic Impact on Food and Livelihood Security of Farm Household in Chittagong Region	<ul style="list-style-type: none"> To document the agricultural practices and innovation adopted by the farmers; To assess the productivity, profitability and sustainability of these practices and innovations To evaluate socioeconomic impact of these practices and innovation on food and livelihood security at farm household 	Selected areas of Chittagong Region
1606	Explore and Evaluation of Floating Market in the Southern Part of Bangladesh	<ul style="list-style-type: none"> To explore the marketing system of the study areas To identify the marketing chains of different traded agricultural crops To estimate the marketing cost of different marketed produces To discover the causes of development or grow this type of markets; and To find out the major constraints to this type of markets 	Bagerhat, Barisal and Pirojpur

SI No.	Research Title	Objective(s)	Location
1607	Study on Production and Price Relationship for Chilli in Bangladesh: An Analysis by Using Distributed Lag Model	<ul style="list-style-type: none"> To study the fluctuation of price, area, production and yield of chilli To determine the relationship between the prices and production amount of chilli, a staple spices in Bangladesh 	Chilli growing areas in Bangladesh

ON-FARM RESEARCH DIVISION

On-Farm Soil Fertility Management			
1608	Fertilizer and water management of chilli in costal region	<ul style="list-style-type: none"> To find out the optimum and economic fertilizer dose for chilli production To estimate the optimum irrigation frequency 	Bhola sadar, Daulatkhan & Charfashion (MLT)
1609	Effect of fertilizer level and placement technique on winter maize under zero tillage condition	<ul style="list-style-type: none"> To observe the performance of maize under no tillage conservation system To identify the suitable dose and appropriate placement technique of fertilizer for zero tillage maize cultivation 	Pushpapara, Pabna (FSRD),
1610	Effect of irrigation and straw management on mungbean after harvest of wheat	To find out the optimum time of irrigation and straw management options for wheat production using residual soil moisture after harvest of wheat	Godagari (FSRD), Amnur and Sapahar (MLT)
1611	Response of lentil to zinc and boron in charland	To find out the optimum doses of Zn and B for lentil cultivation under Charland condition	Char sadipur, Pabna
1612	Response of fertilizer management for brinjal production	To verify the recommended fertilizer dose with farmers practice	Shibpur, Narsingdi
1613	Effect of liming on cabbage and tomato production in acidic soil	<ul style="list-style-type: none"> To find out an optimum dose of lime for cultivation of cabbage and tomato To maximize the yield of cabbage and tomato To popularize the technique among the farmers 	Bhaluka, Mymensingh
1614	Effect of liming on the production of turmeric and ginger	To find out optimum rate of lime for the cultivation of turmeric and ginger.	Phulbaria, Mymensingh
1615	Effect of nitrogen level on kang kong	<ul style="list-style-type: none"> To find out an appropriate dose of nitrogen for higher yield of kang kong To increase the production and income of farmers 	Manikgonj, (MLT) Noakhali and Sylhet (FSRD)
1616	Response of sulphur level on the yield and storability of onion	<ul style="list-style-type: none"> To find out suitable levels of sulphur on the growth and yield of onion To evaluate the keeping quality of onion at different levels of sulphur 	Manikgonj (MLT)
1617	Effect of rice husk biochar on ginger production	<ul style="list-style-type: none"> To investigate the use of biochar as amendment for soil To determine the optimum combination of biochar and inorganic fertilizer for ginger production 	Phulbaria, Mymensingh

SI No.	Research Title	Objective(s)	Location
1618	Effect of fertilizer management on flower yield of gladiolus	<ul style="list-style-type: none"> To evaluate the response of gladiolus to different doses of fertilizers To know the optimum dose of fertilizer for gladiolous yield 	Godkhali, (MLT) Jhikargacha, Jessore
1619	Influence of organic and inorganic fertilizers on garlic production	<ul style="list-style-type: none"> To find out the optimum and economic fertilizer dose for garlic production To increase soil fertility and sustain soil productivity 	Trishal, Mymensingh
1620	Effect of kitchen waste compost and vermicompost with chemical fertilizers on the production of tomato and bottle gourd at charland of Sherpur	<ul style="list-style-type: none"> To popularize kitchen waste compost and vermi-compost among the farmers for producing vegetables To produce quality tomato and bottle gourd using compost and vermi composts To increase yield and income of the farmers 	Kushumhati, Sherpur (FSRD)
1621	Influence of planting techniques and level of fertilizer on quality bulb production of onion	<ul style="list-style-type: none"> The effect of different planting techniques and level of fertilizer on onion bulb production To observe the shelf life of onion bulb 	Pabna (ARS)
1622	Effect of levels of fertilizer and placement techniques on the performance of winter maize under zero tillage cultivation	<ul style="list-style-type: none"> To observe the performance of maize under no tillage conservation system To identify the suitable dose and appropriate placement technique of fertilizer for zero tillage maize cultivation 	Pushpapara, Pabna (FSRD)
1623	Influence of irrigation and wheat straw management options on mungbean after harvest of wheat	To find out the optimum time of irrigation and straw management options for wheat production using residual soil moisture after harvest of wheat	Godagari (FSRD) and MLT Site, Amnura (Chapai-nawabganj) and Sapahar (Naogoan)
1624	Effect of ash as a source of potassium and silica on yield of wheat under heat stress environment	<ul style="list-style-type: none"> To assess the effect of potassium and silica on yield components and yield of wheat To determine economic return 	Pabna, Rangpur and Dinajpur
1625	Effect of ash as a source of silica and potassium on maize under drought condition	<ul style="list-style-type: none"> To assess the effect of potassium and silica on yield components and yield of maize To determine economic return 	Pabna (ARS)
1626	Feasibility of increasing maize productivity through fertilizer management under pre-anthesis drought at farmers' level	<ul style="list-style-type: none"> To determine the ameliorative effects of N, P and K against drought To minimize the farmers yield losses due to pre-anthesis drought 	Pabna(ARS)
1627	Development of fertilizer management practice for Potato-Bitter gourd intercropping systems	<ul style="list-style-type: none"> To develop a suitable fertilizer package for potato-bitter gourd intercropping systems To motivate farmer in using balance fertilizer for growing intercropping of potato-bitter gourd 	Netrakona (MLT)

SI No.	Research Title	Objective(s)	Location
1628	Performance of maize under agroforestry systems with integrated nutrient management	<ul style="list-style-type: none"> To evaluate the performance of cereal crops under fruit tree based agroforestry system To compare the effect of integrated nutrient management and only inorganic fertilizer on crops and fruits yield 	Pushpapara, Pabna (FSRD)
1629	Development of fertilizer recommendation for turmeric, chilli and brinjal as mixed cropping under agroforestry system	<ul style="list-style-type: none"> To develop fertilizer recommendation for turmeric, chilli and brinjal mixed cropping under agroforestry system To increase farmer income 	Pushpapara, Pabna(FSRD)
1630	Development of fertilizer recommendation for Potato-Onion/ Maize-T. Aman rice cropping pattern in High Ganges River Floodplain	To develop the optimum fertilizer dose for higher productivity and profitability	Shibpur, Puthia, Rajshahi (MLT)
1631	Development of fertilizer recommendation for Lentil+Mustard-B. Aus-Black gram cropping pattern in charland under AEZ-11	<ul style="list-style-type: none"> To determine appropriate fertilizer dose for the cropping pattern. To increase production and income of the farmers' 	Char sadipur, Pabna
1632	Development of fertilizer recommendation for Potato-Maize-T. Aman cropping pattern in High Ganges River Floodplain	To find out the optimum and economic fertilizer package for Potato-Maize-T. Aman cropping pattern in High Ganges River Floodplain	Shibpur, Puthia, Rajshahi (MLT)
1633	Development of fertilizer package for Potato-Maize-T. Aman rice cropping pattern in AEZ-1	<ul style="list-style-type: none"> To find out the suitable fertilizer dose for maize as a succeeding crop of potato To find out the economic dose of fertilizer for maize as a succeeding crop of potato 	Ranigonj, Dinajpur
1634	Effect of ash as a source of potassium and silica on mustard and lentil	<ul style="list-style-type: none"> To investigate the response of ash as source of silicon and potassium on disease prevalence of mustard and lentil To increase production and income of the farmers 	Atghoria and Char Sadipur, Pabna
1635	Development of fertilizer recommendation for Mustard – Mungbean-T. Aus-T. Aman cropping pattern in High Barind Tract	To develop the optimum fertilizer dose for higher productivity and profitability Mustard-Mungbean-T. Aus-T. Aman rice cropping sequence	Kadamshahar Godagari, Rajshahi (FSRD)
1636	Development of fertilizer management package for onion cultivation	<ul style="list-style-type: none"> To determine appropriate dose of fertilizer for high yield goal of onion; To increase crop production and farmer's income. 	Mujibnagar
1637	Effect of vermi and conventional compost on Bt Brinjal	<ul style="list-style-type: none"> To find out the suitable dose of vermicompost, compost and chemical fertilizers for maximizing the yield of Bt. Brinjal To know the effect different fertilizer management packages on the improvement of soil health 	Jessore

SI No.	Research Title	Objective(s)	Location
1638	Development of fertilizer recommendation for muskmelon at charland of Faridpur	<ul style="list-style-type: none"> To find out the optimum dose of fertilizer To find out the yield performance in response to fertilizer 	Sadar & Faridpur
1639	Integrated nutrient management for sweet gourd with chili as relay crop	<ul style="list-style-type: none"> To find out the optimum dose of fertilizer for sweet gourd with chili as a relay crop To find out the yield and economic performance in response to fertilizer 	Faridpur
1640	Integrated nutrient management for groundnut with sesame intercropping system in charland of Faridpur	<ul style="list-style-type: none"> To find out the optimum dose of fertilizer To find out the yield and economic performance in response to fertilizer 	Faridpur (FSRD)
1641	Development of fertilizer recommendation for chilli at charland of Jamalpur	<ul style="list-style-type: none"> To find out the optimum fertilizer dose for chilli To increase yield and farmers' income 	Melandah, Jamalpur and Netrakona, Mymensingh
1642	Effect of conventional and vermicompost on the yield of different vegetables	<ul style="list-style-type: none"> To find out the effect of vermicomposting and compost on soil properties as well as nutrient uptake To find out the efficacy of vermi-compost and compost on upland crops such as broccoli, cauliflower and cabbage 	Noakhali
1643	Effect of integrated nutrient management on soybean in charland of Noakhali	To study the effect of integrated nutrient management on nodulation, yield and quality of soybean	Laxmipur
1644	Effect of fertilizers and different sowing method on the yield of linseed	<ul style="list-style-type: none"> To evaluate seed yield, oil content, and oil quality response of rainfed linseed to nitrogen (N) and phosphorus (P) fertilization in saline area To determine fertilizer doses for different sowing method 	Killarchar, Companygonj Noakhali
1645	Effect of nitrogenous fertilizer on the yield of bottle gourd for leaf purpose	<ul style="list-style-type: none"> To find out the optimum dose of nitrogen fertilizer and best application method for leaf purpose of bottle gourd To increase yield and economic return of farmers 	Elenga, Tangail
1646	Development of fertilizer packages against fruit dropping of betel nut	<ul style="list-style-type: none"> To find out appropriate fertilizer packages for bitternut To reduce fruit dropping and increase farmers income 	Ulipur (Rangpur), Noakhali and Barisal
1647	Development of fertilizer recommendation for Maize – Maize-Fallow cropping pattern	To find out the optimum and economic fertilizer package for Maize-Maize-Fallow cropping pattern in Manikgonj	Manikgonj
1648	Effect of fertilizers on mustard as relay cropping with T.Aman rice	<ul style="list-style-type: none"> To find out the optimum fertilizers dose for mustard as relay cropping with T.Aman rice To increase the income of the farmers 	Jhikargacha, Jessore

SI No.	Research Title	Objective(s)	Location
1649	Effect of planting technique and fertilizer management of cowpea in coastal area	<ul style="list-style-type: none"> To increase cowpea yield through fertilizer management. To increase cowpea production and farmers' income 	Coasta area
1650	Effect of IPNS-based fertilizer on sesame in charland areas	<ul style="list-style-type: none"> To find out the proper nutrient management packages of sesame in charland To increase production and farmer's income 	Kushtia, Tangail and Rangpur
1651	Effect of biochar on soil properties, grain and biomass yield of maize	<ul style="list-style-type: none"> To evaluate the effect of biochar on crop productivity To compare the effect of inorganic and organic amendments on fertility level 	Trishal
1652	Effect of organic manures on yield and quality of potato	<ul style="list-style-type: none"> To maintain soil health and production sustainability of potato To select suitable combination of organic manures and inorganic fertilizers 	Netrakona
1653	Development of fertilizer recommendation for Mustard-Boro-T.Aus-T.Aman cropping pattern	To see the residual effect of applied fertilizer	Trishal, Mymensingh
1654	Development of fertilizer recommendation for ash gourd	<ul style="list-style-type: none"> To find out the optimum rate of nutrients for high yield of Ash gourd To increase crop productivity and economic return 	MLT site Netrakona
1655	Effect of organic fertilizers on bitter gourd	<ul style="list-style-type: none"> To identify suitable organic waste for bitter gourd Increase income of the farmers 	Trishal, Mymensingh (MLT)
Cropping Patterns			
1656	Development of alternate cropping pattern, Gardenpea - Fallow-T.aman against Fallow- Fallow- T.aman rice	<ul style="list-style-type: none"> To establish alternate cropping pattern against farmers pattern in coastal area Farmers income could be increased 	Khulna
1657	Improvement of existing pattern Wheat- Jute-T.aman	To improve the existing cropping pattern by inclusion of new crop varieties	Tangail, Bogra & Barisal
1658	Development of alternate cropping pattern, Wheat -Jute- T.aman rice against- Wheat-Fallow- T.aman rice cropping pattern in AEZ-22	<ul style="list-style-type: none"> To develop an improved cropping pattern against existing farmers pattern Farmers crop production as well as income could be increased 	Habiganj
1659	Development of alternate cropping pattern, Potato – Groundnut- T.aman rice against existing cropping pattern Potato- Boro-T.aman rice	<ul style="list-style-type: none"> To evaluate the performance of the alternate cropping pattern in the Rangpur region To increase system productivity and farmers income 	Nilphamari
1660	Development of alternate cropping pattern, Potato –	To develop an economically profitable an environment friendly cropping pattern over	Bogra

SI No.	Research Title	Objective(s)	Location
	Pankachu against existing cropping pattern Panikachu- T.aman rice	existing pattern • To increase system productivity and farmers income	
1661	Development Wheat – Mungbean- T.aman against existing cropping pattern Boro- T.aman rice	• To develop an improved cropping pattern against existing farmers pattern • To develop an economically profitable an environment friendly cropping pattern over existing pattern • Farmers crop production as well as income could be increased	Mymensingh
1662	Development Gourds – Mungbean- T.aman against existing cropping pattern Gourds –Fallow- T.aman rice	• To improve the existing cropping pattern by inclusion of mungbean • Farmers crop production as well as income could be increased	Mymensingh
1663	Development of alternate cropping pattern, Mustard –Indian spinach - T.aman rice against- Mustard- Fallow- T.aman rice in the coastal area of Khulna	• To increase system productivity and farmers income • To increase the vegetables production in the locality	Khulna
1664	Improvement of Wheat- D. Aus or T. Aus – T.aman cropping through interventions of short duration T.aman Variety	• To evaluate the improved cropping pattern • To increase system productivity and farmers income	Bhola & Daultakhan
1665	Improvement of existing cropping pattern Potao- Foxtail millet- Fallow in char land of Munshiganj	• To improve the existing cropping pattern by inclusion of mungbean • Farmers crop production as well as income could be increased	Munshiganj
1666	Development of alternate cropping pattern Chilli- Fallow-T.Aman rice against farmers existing Fallow-Fallow-T.Aman	• To introduce BARI Morich-1 in this region • To increase economic return of farmers	Razakhali, Dumki, Patuakhali and Amtali, Barguna
1667	Development of alternate cropping pattern Wheat- Fallow-T.Aman against Fallow-Fallow-T.Aman in coastal area	• To introduce wheat in this region • To increase economic return of farmers	Kuakata, Patuakhali and Amtali, Barguna
1668	Development of alternate cropping pattern Potato- Mungbean-T.Aman against Potato – Fallow- T.Aman rice	• To improve the existing cropping pattern by inclusion of Mungbean and to increase cropping intensity • To improve soil health and • To increase economic return of farmers	Mymensingh
1669	Development of alternate cropping pattern Onion/Mungbean–Jute– T.Aman against Onion– Jute–T.Aman at charland	• To evaluate the performance of the improved cropping pattern in Rangpur region • To increase cropping intensity and active	Kurigram

SI No.	Research Title	Objective(s)	Location
	of Kurigram	inclusion of Pulse crop in cropping pattern <ul style="list-style-type: none"> • To maintain soil health • To increase income and employment opportunity of farmers 	
1670	Development of alternate cropping pattern Potato/ Aroid (Mukhikachu) – T.Aman against Potato–Boro–T.Aman at level Barind tract of Rangpur region	To evaluate the performance of the improved cropping pattern the level barind tract of Rangpur region	Pirganj and Gobindhaganj
1671	Development of alternate cropping pattern Potato/sweet gourd- T.Aus-T.Aman against Boro-T.Aman rice	<ul style="list-style-type: none"> • To develop vegetable based alternative cropping pattern • To increase income of the farmers 	Ulipur, Kurigram
1672	Development of alternate cropping pattern Potato- Bitter gourd+ Pointed gourd (as intercrop)– Onion (Bulb) against Potato –Gourds-T.Aman	<ul style="list-style-type: none"> • To improve the existing cropping pattern and increase cropping intensity • To increase yield and economic return of farmers 	Modhupur (Dhanbari), Tangail
1673	Development of alternate cropping pattern Mustard- Mungbean-T.Aman against Fallow-Fallow- T.Aman in coastal area	<ul style="list-style-type: none"> • To increase system productivity of crops • To increase farmers income 	Bagerhat
1674	Development of alternate cropping pattern Mustard–Jute-T.Aman against Fallow-Fallow- T.Aman in coastal area	<ul style="list-style-type: none"> • To improve existing cropping pattern • To increase farmers’ income 	Satkhira
1675	Development of alternate cropping pattern Maize- T.Aus-T.Aman against Maize–Fallow-T.Aman in the northern part of Bangladesh	<ul style="list-style-type: none"> • To increase cropping intensity by adding one more crop in the pattern • To increase total production and income of the farmer 	Lahirirhat, Rangpur; Pirgong, Rangpur & Gobindoganj, Gaibandha,
1676	Development of alternate cropping pattern Mustard–Boro-T.Aman against Fallow–Boro- T.Aman rice	<ul style="list-style-type: none"> • To improve the existing cropping pattern for increasing cropping intensity and productivity by inclusion of mustard • To increase crop yield and farmers’ income 	Pirgonj (Rajbari), Thakurgaon, Kishoreganj, Shibpur (Narsingdi), Debhata (Satkhira) and Bhola

SI No.	Research Title	Objective(s)	Location
1677	Improvement of Lentil-Jute-T.Aman rice cropping pattern in level Barind Tract	<ul style="list-style-type: none"> To improve the existing cropping pattern by inclusion of new crop varieties in the improved pattern To increase crop yield and economic return 	Bogra
1678	Development of alternate cropping pattern Mustard-Kenaf-T.Aman against Lentil-Kenaf-T.Aman rice	To increase the crop production and economic return	Karimganj, Kishoreganj
1679	Development of alternate cropping pattern Wheat-Kenaf-T.Aman against Maize-Fallow-T.Aman rice	<ul style="list-style-type: none"> To increase the cropping intensity against existing cropping pattern To increase the crop production and economic return 	Kishoreganj
1680	Development of alternate cropping pattern Boro-Sesbania-T.Aman against Boro-Sesbania-Fallow cropping pattern	<ul style="list-style-type: none"> To improve the existing cropping pattern To increase economic return of farmers 	Shibpur, Narsingdi
1681	Development of alternate cropping pattern Potato-Mungbean-Fallow against Potato-Fallow-Fallow cropping pattern in AEZ-15	<ul style="list-style-type: none"> To develop an improved cropping pattern against existing cropping pattern To increase crop production as well as income of the farmers 	Munshiganj
1682	Development of alternate cropping pattern Garden pea-Boro-T.Aman against Fallow-Boro-T.Aman rice	<ul style="list-style-type: none"> To study the feasibility of growing Garden pea as vegetable crop in the Boro rice-Fallow-T.Aman rice cropping pattern To increase cropping intensity and farmers' income 	Dhirashram, Gazipur and Debhata, Satkhira
1683	Conservation Agriculture practices in Wheat – Mungbean-T.Aman rice cropping pattern	<ul style="list-style-type: none"> To compare different tillage options for Wheat-Mungbean- T.Aman rice cropping pattern To observe soil moisture under different tillage options 	Shibpur, Puthia, Rajshahi
1684	Development of alternate cropping pattern Fallow-Sesame T.Aman against Fallow-Fallow-T.Aman in coastal area	<ul style="list-style-type: none"> To improve existing cropping pattern To increase cropping intensity 	Koyra, Khulna
1685	Development of alternate cropping pattern Wheat-Mungbean-T.Aman against Boro-T.Aus-T.Aman rice in the coastal area	<ul style="list-style-type: none"> To establish alternate cropping pattern against farmers' existing cropping pattern in coastal area To increase farmers' income 	Debhata, Satkhira
1686	Development of alternate cropping pattern Potato-Mungbean-T.Aman against Fallow –Mungbean-T.Aman in coastal region	<ul style="list-style-type: none"> To intensify the farmers existing patterns and increase farmer's income through intensifying new crop in their existing pattern. To utilize fallow land during Rabi season 	Dumki and Amtoli

SI No.	Research Title	Objective(s)	Location
1687	Development of alternate cropping patterns against Fallow-Mungbean-T.aman rice	<ul style="list-style-type: none"> Existing cropping pattern replacement and switching to more profitable one To replace the traditional varieties and increase the yield 	Gournadi
1688	Performance of short duration mustard varieties in between B.Aman and Boro rice	<ul style="list-style-type: none"> To find out the performance of short duration mustard varieties To popularize mustard varieties among the farmers and increase their income To increase the total crop productivity 	Manikgonj
1689	Study on vegetable based cropping pattern in Comilla	<ul style="list-style-type: none"> To meet the vegetable demand for family To increase the cropping intensity as well as to establish vegetable based cropping pattern 	Burichong, Chandina and Sadar, Comilla
1690	Development of alternate cropping pattern Sunflower-Snake gourd-T.Aman against Mungbean-Fallow-T.Aman in coastal region	<ul style="list-style-type: none"> To intensify the farmers existing patterns in coastal region To utilize fallow land during Rabi and Kharif -1 season To increase farmer's income through intensifying new crop in their existing pattern 	Amtoli, Kuakata, Patuakhali
1691	Development of alternate cropping pattern Potato-Mungbean-T.Aman rice against Mungbean-Fallow-T.Aman in coastal region	<ul style="list-style-type: none"> To intensify the farmers existing patterns To utilize fallow land during Rabi season To increase farmer's income through intensifying new crop in their existing pattern 	Dumki and Amtoli
1692	Development of alternate cropping pattern Wheat-Mungbean-T.Aman against Wheat – Fallow-T.Aman rice	<ul style="list-style-type: none"> To develop an economically viable cropping pattern by inclusion of mung bean To increase soil health and cropping intensity To maximize farmers income 	Bhaluka, Mymensingh
1693	Development of alternate cropping pattern Cucumber-Jute-T.Aman against Fallow-Jute-T.Aman rice	<ul style="list-style-type: none"> To improve the cropping pattern by inclusion of cucumber To increase cropping intensity and farmers income 	Bhaluka, Mymensingh
1694	Development of alternate cropping pattern Mustard-Boro-T.Aman against Fallow-Boro-T.Aman	<ul style="list-style-type: none"> To increase cropping intensity by inclusion of mustard To increase crop productivity and economic return To develop a sustainable cropping pattern 	Netrakona
1695	Development of four crops based cropping pattern	<ul style="list-style-type: none"> To increase cropping intensity and productivity through rice based cropping system To sustain food security, poverty reduction, resource management and livelihood improvement of ever increasing populations To increase farmer's income, access to food and nutrition, employment opportunity and woman's participation in agriculture 	Pabna, Tangail, Dinajpur, Kushtia, Faridpur, Bogra, Rangpur, Comilla, Shyampur, Jamalpur

SI No.	Research Title	Objective(s)	Location
1696	Development of five crop based cropping pattern Jute – Cauliflower-Red beet-Red amaranth-Indian spinach against Jute-Cauliflower-Indian spinach in coastal area of Khulna	<ul style="list-style-type: none"> To develop existing cropping pattern To increase cropping intensity and farmers' income 	Dumuria, Khulna
Intercropping			
1697	Intercropping chickpea with kaon in different plant population under rainfed condition in High Barind Tract	To find the agronomic and economic performance of intercropping chickpea with kaon	FSRD Site, Godagari (MLT) Amnura and Shapahar
1698	Performance of intercrop vegetables, pulses and spices crops with sugarcane at char land of Jamalpur	<ul style="list-style-type: none"> To increase the land use efficiency To increase total yield and farmers' income 	Melandah, Mymensingh (MLT)
1699	Intercropping of red amaranth, coriander and radish with pointed gourd	<ul style="list-style-type: none"> To increase total productivity and economic return through intercropping system To maximize land utilization 	Modhupur, Tangail (MLT)
1700	Studies on intercropping of leafy vegetables with ash gourd	<ul style="list-style-type: none"> To increase land use efficiency as well as farmers' income To increase cropping intensity To popularize leafy vegetables with ash gourd 	Netrakona (MLT)
1701	Study on intercropping of radish/ carrot/ garlic/ onion with chilli	<ul style="list-style-type: none"> To find out the suitable intercrop combination for higher productivity and economic return To increase the cropping intensity and profitability 	Mymensingh sadar
1702	Studies on intercropping of red amarnath and coriander with cabbage	<ul style="list-style-type: none"> To increase the land use efficiency as well as farmers' income To increase cropping intensity 	Trishal, Mymensingh
1703	Intercropping vegetables with maize in the haor area	<ul style="list-style-type: none"> To know the performance of vegetable as intercrop with maize To ensure food security and income haor farmers 	Nikli Upazilla, Kishoreganj
1704	Intercropping of cauliflower with brinjal	<ul style="list-style-type: none"> To find out the agro-economic performance of intercropping cauliflower with brinjal To increase cauliflower production 	Shibpur, Narsingdi
1705	Intercropping of different short duration crops with sugarcane	<ul style="list-style-type: none"> To find out the suitable vegetable for relay cropping with Sugarcane To increase the cropping intensity To boost up the farmers income 	Barura, Comilla
1706	Intercropping of different vegetables with summer tomato	<ul style="list-style-type: none"> To determine the performance of different vegetables as intercrops with summer tomato To increase cropping intensity as well as farmers income of the location 	Tularampur, Narail

SI No.	Research Title	Objective(s)	Location
1707	Intercropping of groundnut with garlic and onion in charland	<ul style="list-style-type: none"> To find out suitable intercropping practice groundnut with garlic and onion To increase total production and income of the farmers 	Ulipur, Kurigram and Sariakandi, Bogra
1708	Performance of brinjal as intercrop with garlic and coriander	<ul style="list-style-type: none"> To observe yield and economic return from intercrop of garlic/ coriander and brinjal To increase economic return 	Shibpur, Puthia, Rajshahi and Mymensingh
1709	Intercropping of garden pea with hybrid maize	<ul style="list-style-type: none"> To increase the income of the farmers. To popularize garden pea intercropping with maize 	Kaliganj, Jhenaidah and Mymensingh
1710	Intercropping of mukhikachu and papaya with pineapple	<ul style="list-style-type: none"> To increase productivity and return by intercropping system To maximize land utilization 	Modhupur & Ghatail, Tangail
1711	Intercropping of different sweet gourd varieties with potato	<ul style="list-style-type: none"> To observe the performance of potato and sweet gourd in intercropping system To find the suitable sweet gourd variety To increase production and economic return 	Comilla and Chandpur, Mymensingh
1712	Intercropping of different leafy vegetables with hybrid maize in Maize-Maize-Fallow cropping pattern	<ul style="list-style-type: none"> To increase the total crop productivity To assess the economic performance of intercropping leafy vegetables with maize To evaluate the effect of leafy vegetables intercropping on maize yield 	Manikgonj
1713	Intercropping of maize with short duration vegetables and spices	<ul style="list-style-type: none"> To select the suitable crop for intercropping with maize To increase the cropping intensity and farmers' income 	Zakiganj, Moulvibazar and Jalalpur
1714	Intercropping onion and garlic with chilli in Bhola	<ul style="list-style-type: none"> To observe the performance of onion and garlic with chilli To increase production and farmers' income 	Daulatkhan, Charfashion, Bhola
1715	Intercropping of coriander and garlic with radish	<ul style="list-style-type: none"> To increase cropping intensity and crop productivity To increase land use efficiency and economic return 	Netrakona
1716	Intercropping of groundnut with sesame	<ul style="list-style-type: none"> To determine the suitable intercrop combination of groundnut with sesame To increase productivity and income of the farmers' 	Trishal, Phulpur & Mymensingh
1717	Intercropping of coriander with garlic	<ul style="list-style-type: none"> To increase the cropping intensity To increase crop production and farmers income 	Mymensingh
1718	Intercropping of onion and garlic with chilli at charland	<ul style="list-style-type: none"> To find out the suitable intercrop combination for higher productivity and economic return To increase the cropping intensity as well as total productivity 	Char land
1719	Intercropping of leafy vegetables with sweet	<ul style="list-style-type: none"> To find out the suitable leafy vegetables as intercrop with sweet gourd for higher 	Sadar, Mymensingh

SI No.	Research Title	Objective(s)	Location
	gourd	productivity and economic return • To increase the cropping intensity as well as total productivity	
1720	Intercropping of leafy vegetables with mukhikachu	• To determine the performance of leafy vegetables with mukhikachu • To increase crop production and farmers income	Kalirbazar, Trishal, Mymensingh
1721	Intercropping of garlic with groundnut	• To evaluate the performance of BARI Chinabadam as intercrop with garlic and to increase the land use efficiency • To increase productivity and economic return	Khanshama, Dinajpur
Mixed and relay cropping			
1722	Mixed cropping of mungbean and cowpea	• To find the suitable crop combination • To increase crop production as well as income of farmers	Bhola Sadar & Daulatkhan
1723	Mixed cropping of lentil and mustard under rainfed condition in High Barind Tract	• To verify the agro-economic performance of mixed cropping of lentil with mustard • To ensure the maximum utilization of the land for higher yield and economic return	Godagari, Sapahar (Naogoan) and Amnura (Chapai-Nawabganj)
1724	Mixed cropping of Lentil with cowpea	• To verify the agronomic and economic performance of mixed cropping of lentil with cowpea • To ensure the maximum utilization of the land for higher yield and income	Feni
1725	Mixed cropping of field pea with Mustard	• To verify the agronomic and economic performance of mixed cropping of Field pea with Mustard • To ensure the maximum utilization of the land for higher yield and income	Feni
1726	Relay cropping of sweet gourd with potato at High Barind Tract	To find out the optimum plant population of sweet gourd in potato field and increase the farmer's income	Godagari, Sapahar (Naogoan) and Amnura (Chapai-Nawabganj)
1727	Performance of onion with relay maize	• To observe the feasibility of onion cultivation relaying with maize • To find out the suitable planting time of maize for relay cultivation as well as to reduce turnaround time plus input costs	Pushpopara, Pabna
1728	Performance of different cucurbits as relay crop with potato	• To observe the performance of cucurbit as relay crops with potato	Rajshahi Comilla
1729	Performance of lentil and sweet gourd as relay crop with sugarcane	• To observe the performance of cucurbit and lentil as relay crops with sugarcane • To increase the productivity in sugarcane based cropping systems	Shibpur, Puthia, Rajshahi

SI No.	Research Title	Objective(s)	Location
1730	Performance of wheat varieties relaying with T.Aman under T.Aman/ wheat -T.Aus cropping pattern	<ul style="list-style-type: none"> To select the suitable wheat variety under relay condition To increase production and farmers income 	Kushtia Sadar
1731	Relaying creeper vegetables with hybrid maize using its stem as supporting materials	<ul style="list-style-type: none"> To increase the land use efficiency To increase total yield and farmers' income 	Manikgonj
1732	Potato relaying with maize at charland	<ul style="list-style-type: none"> To find out the optimum sowing time of maize relay with potato To increase the land efficiency To increase total yield and farmers' income 	Kushumhati, Sherpur
1733	Effect of rice straw height on the yield of relay cowpea in coastal area	<ul style="list-style-type: none"> To standardized the straw height for proper growth of cowpea To quantify the residue retention in soil 	Kuakata, Patuakhali
1734	Relay cropping of garden pea with T.Aman rice	<ul style="list-style-type: none"> To study the feasibility of garden pea with T. Aman rice To increase productivity and income of the farmers 	Muktagacha, Mymensingh
Component technologies			
1735	Influenced of mulching and tillage on soil moisture conservation and yield of tomato in High Barind Tract	To find out suitable tillage practice and mulching for conserving residual soil moisture for tomato cultivation in HBT.	Godagari and Amnura (Chapai-Nawabganj)
1736	Establishment of relay lentil with T.Aman rice as influenced by stubble height	<ul style="list-style-type: none"> To find out the suitable time and soil moisture for successful relay lentil production To find out the optimum height of rice stubble 	Godagari, Rajshahi
1737	Effect of sowing date on yield of soybean in High Barind Tract	To find out the optimum sowing time for soybean cultivation	Godagari and Amnura (Chapai-Nawabganj)
1738	Effect of planting date of pineapple in mango orchard at High Barind Tract	To find out the optimum planting time and suitable variety of pineapple in mango orchard at High Barind Tract	Godagari, Rajshahi
1739	Performance of potato planter and harvester in Rangpur region	<ul style="list-style-type: none"> To evaluate the performance of potato planter and harvester for potato cultivation at farmers' field condition To introduce the potato planter and potato harvester among the farmers 	Pirgonj, Rangpur (MLT)
1740	Effect of sowing date and variety on yield of mustard in Dinajpur	To determine the optimum sowing date for maximizing the yield of mustard in Dinajpur area	Dinajpur (ARS)

SI No.	Research Title	Objective(s)	Location
1741	Effect of planting date on the performance of summer tomato	To find out optimum planting date for maximizing the yield of summer tomato cultivation	Tularampur, Narail (MLT)
1742	Effect of different tillage system for wheat cultivation	<ul style="list-style-type: none"> To select the suitable tillage system/cultural practice for wheat cultivation To increase yield and economic return of farmers 	Bhuapur and Ghatail, Tangail (MLT)
1743	Effect of sowing time and plant spacing on the yield of mukhikachu	<ul style="list-style-type: none"> To find out optimum planting date and spacing for the production of Mukhikachu. To increase the yield and economic return of farmers To popularize and disseminate BARI developed high yielding variety of Mukhikachu among the farmers 	Gouripur, Mymensingh
1744	Effect of sowing date on the yield of coriander at charland	<ul style="list-style-type: none"> To find out a suitable optimum sowing time for coriander production in char land To increase the yield and economic return of farmers To popularize and disseminate BARI developed high yielding variety of dhonia among the farmers 	Kalirbazar, Trishal
1745	Maize cultivation through conservation tillage practices in <i>Haor</i> area	<ul style="list-style-type: none"> To see the effect of minimum tillage on maize To introduce minimum tillage in maize growing area To increase production and economic return 	Nikli, Kishoreganj
1746	Soil moisture and salinity management for maize in coastal area	<ul style="list-style-type: none"> To conserve soil moisture for maize To reduce salinity effect 	Patuakhali & Barguna
1747	Soil moisture and salinity management for sunflower in coastal area	<ul style="list-style-type: none"> To conserve soil moisture for maize/sunflower To reduce salinity effect 	Patuakhali & Barguna
1748	Crop intensification in fallow land through dug well water irrigation	<ul style="list-style-type: none"> To increase crop intensity in fallow land To use non saline reserve water 	Kuakata, Patuakhali and Amtali, Barguna (MLT)
1749	Performance of linseed variety against varying degrees of salinity	To evaluate the performance of linseed lines/ varieties at varying degree of salinity	Killar Char, Companiganj; Nolerchar, Hatia
1750	Effect of different amount of water hyacinth as mulch on potato and tomato at the saline soil of Noakhali	To evaluate the effect of different amount of water hyacinth as mulch on potato and tomato	Hazirhat, Noakhali (FSRD)
1751	Maximization of production and income	<ul style="list-style-type: none"> To evaluate the performance of BARI released vegetable varieties in terms of yield 	BARI Central Farm

SI No.	Research Title	Objective(s)	Location
	through intensive vegetable cultivation with BARI developed varieties	and economic return as compared to local varieties <ul style="list-style-type: none"> • To develop an intensive vegetable production model for maximizing per unit production and income • To know the changes in soil nutrient status due to intensive cropping (at 2-3 years interval) 	(Block 24)
1752	Effect of plant spacing and variety of bottle gourd for leaf purpose	<ul style="list-style-type: none"> • To evaluate BARI released bottle gourd varieties for leaf purpose • To increase yield and economic return of farmers 	Tangail
1753	Effect of planting method and mulch to mitigate salinity and conserve moisture in tomato field	<ul style="list-style-type: none"> • To mitigate salinity and conserve moisture in tomato field • To utilize fallow land during Rabi season in coastal region • To increase farmer's income 	Kalapara and Amtoli
1754	Effect of planting system on the yield of chilli at coastal area	<ul style="list-style-type: none"> • To find out suitable planting system of chilli in coastal saline area. • To increase plant stand. • To increase farmers income. 	Kuakata (MLT)
1755	Performance of different summer vegetables seedlings on floating bed in submerged ecosystem of southern region of Bangladesh	<ul style="list-style-type: none"> • To find out the suitable summer vegetables crop(s) for raising seedlings • To observe the seedlings performance on water hyacinth made floating bed 	Banaripara (MLT)
1756	Minimization of soil salinity through green manuring and tillage practices on Rabi Crops-Fallow-T.Aman cropping pattern	<ul style="list-style-type: none"> • To observe the changes in soil salinity and other soil physical properties before and after incorporation of green manuring crop. • To find out the residual effect of green manuring crop along with tillage practices for minimizing soil salinity on subsequent crop yields (Rabi-Fallow-T.Aman). 	Keramatpur, Subarnachar and Hazirhat, Sadar
1757	Weed management in Rice-Wheat-Mungbean cropping pattern under conservation agriculture in High Barind Tract	To develop sustainable and effective weed management strategies under CA systems	Kadamshahar Godagari, Rajshahi
1758	Effect of Gibberellic Acid on growth and yield of tomato in High Barind Tract	To find out optimum dose of Gibberellic acid for tomato cultivation	Godagari and MLT Site, Amnura (Chapai-Nawabganj)
1759	Performance of maize under different tillage options in drought prone environment	<ul style="list-style-type: none"> • To compare different tillage options for maize cultivation • To observe soil moisture under different tillage options 	Shibpur, Puthia, Rajshahi

SI No.	Research Title	Objective(s)	Location
1760	Effect of different mulching on the yield of pointed gourd in AEZ 12	<ul style="list-style-type: none"> To find out suitable mulching for conserving residual soil moisture for pointed gourd cultivation in charland of Faridpur 	Faridpur (FSRD) and Rajbari(MLT)
1761	Effect of different harvesting procedure on the yield of mungbean	<ul style="list-style-type: none"> To decrease production cost through labor minimizing and To increase economic return of farmers 	Sadar upazilla of Faridpur and Rajbari (MLT)
1762	Effect of irrigation on groundnut yield at the charland of Bhuapur, Tangail	<ul style="list-style-type: none"> To evaluate the effect of irrigation on the yield of groundnut To increase yield and economic return of farmers 	Bhuapur, Tangail (MLT)
1763	Effect of spacing on the seed yield of sweet pepper	<ul style="list-style-type: none"> To select the optimum spacing of sweet pepper for higher seed yield To disseminate the seed production technique among the farmers 	Shibpur, Narsingdi
1764	Screening of potential heat tolerant physiological traits of wheat under climate change induced terminal heat stress	<ul style="list-style-type: none"> To varietal response to terminal heat with regards to grain filling traits To investigate contribution of current photosynthesis and reserve remobilization for grain filling To provide feedback to the breeder 	Pabna(ARS)
1765	Effect of planting time on the yield of Bt Brinjal in the Northern region of Bangladesh	<ul style="list-style-type: none"> To find out suitable transplanting time of BARI Bt Begun-2 To know the productivity and profitability 	Rangpur (ARS)
1766	Effect of planting method and mulch to mitigate salinity and conserve moisture in tomato field	<ul style="list-style-type: none"> To mitigate salinity and conserve moisture in tomato field To utilize fallow land during Rabi season in coastal region To increase farmer's income 	Kalapara and Amtoli
1767	Effect of sowing time on the yield of Ash gourd	<ul style="list-style-type: none"> To find out the optimum sowing time of ash gourd To increase ash gourd production and farmers income 	Phulbaria and Bhaluka, Mymensingh
1768	Effect of plant spacing on the yield of sweet potato	<ul style="list-style-type: none"> To evaluate proper plant spacing of sweet potato for the locality To increase yield and income of the farmers 	Muktagacha,
1769	Validation of power tiller operated seeder (PTOS) and bed planter for wheat & maize cultivation	<ul style="list-style-type: none"> To validate power tiller operated seeder (PTOS) and bed planter for wheat cultivation To popularize power tiller operated seeder (PTOS) and bed planter in Tangail area 	Bhuapur (MLT)
1770	Validation of potato planter and potato harvester in farmers field	<ul style="list-style-type: none"> To popularize potato planter and potato harvester among the farmers of Tangail area To compare the cost of production of potato planter and harvester with farmers practice 	Bhuapur & Modhupur (MLT) and Tangail (FSRD)
1771	Impact assessment of climate change on major	<ul style="list-style-type: none"> To assess the effect of climate change on crop production To assess the change of crop production and 	FSRD and all MLT sites

SI No.	Research Title	Objective(s)	Location
	crop adaptation and resource utilization in farming systems	<ul style="list-style-type: none"> income generation To evaluate resource utilization pattern under climate change To generate information and advocate positive guidance for crop production at farming systems research 	
1772	Performance of BARI developed summer tomato variety	<ul style="list-style-type: none"> To find out the performance of summer tomato varieties To popularize among the farmers and increase their income. 	Dinajpur (MLT) and Tangail (FSRD)
1773	Performance of minor spices on coastal area	<ul style="list-style-type: none"> To see adoption and yield potential of minor spices in coastal area To popularize the spices varieties in the southern region 	Kuakata, Patuakhali and Amtali, Barguna (MLT) and Dumki, Patuakhali and Noakhali (FSRD)
1774	Performance of different hybrid maize in <i>Rabi</i> and <i>Kharif</i> -I season	<ul style="list-style-type: none"> To select suitable variety of maize in both Rabi and kharif I season To increase production and economic return of farmers 	Manikgonj and Shibpur (MLT) Puthia, Rajshahi
1775	Late planting potential of BARI released tomato varieties in North-West region of Bangladesh	<ul style="list-style-type: none"> To produce and supply tomato for kharif season/off season To identify suitable variety for late planting 	On-Station and Lahirirhat (FSRD)
1776	Performance of BARI wheat varieties	<ul style="list-style-type: none"> To evaluate the performance of different wheat varieties To increase production and income of farmers To select the location specific suitable wheat variety 	Dinajpur, Joypurhat, Manikgonj, Munshiganj, Faridpur, Kushtia, Kishoreganj, Bhola, Bogra and Khulna
1777	Performance of BARI hybrid maize varieties	<ul style="list-style-type: none"> To evaluate the performance of newly released hybrid maize varieties in different locations To popularize the hybrid maize varieties among the farmers 	Bandarban, Kishoreganj, Bhola, Dinajpur and Faridpur
1778	Performance of lentil varieties at farmers' fields	<ul style="list-style-type: none"> To popularize lentil varieties among the farmers To increase yield of lentil 	Mymensingh, Kishoreganj, Satkhira, Kushtia and Bogra
1779	Performance of chickpea in charland area of Faridpur	<ul style="list-style-type: none"> To evaluate the performance of newly released chickpea varieties To popularize the chickpea varieties among the farmers 	Sadar Upazilla and Char-bhadrason of Faridpur

SI No.	Research Title	Objective(s)	Location
1780	Performance of blackgram varieties in <i>Haor</i> areas	<ul style="list-style-type: none"> To evaluate the performance of blackgram varieties To popularize the BARI black gram varieties among the farmers To increase production and income of farmers 	Sylhet, Kishoreganj and Bogra
1781	Performance of sesame varieties	<ul style="list-style-type: none"> To evaluate the performance of BARI released sesame varieties at farmers' field. To increase yield and farmers' income 	Sylhet, Khulna, Gopalganj (new), Rangpur and Comilla
1782	Performance of linseed varieties	<ul style="list-style-type: none"> To select suitable variety of linseed To increase crop production by utilizing fallow land as well as income of farmers 	Sylhet, Noakhali & Patuakhali
1783	Performance of BARI groundnut varieties in charland eco-systems	<ul style="list-style-type: none"> To evaluate BARI released groundnut varieties To popularize and disseminate BARI released groundnut varieties among the farmers 	Bheramara, Jamalpur, Mymensingh, Kurigram, Nilphamari Dinajpur and Bogra
1784	Performance of BARI sweet gourd variety at charland	<ul style="list-style-type: none"> To evaluate the performance of BARI Sweet gourd variety at farmers field condition To increase production and income of farmers 	Sabjipara, Mymensingh sadar
1785	Performance of onion varieties	<ul style="list-style-type: none"> To evaluate onion bulb production ability. To popularize and disseminate BARI released onion varieties among the farmers 	Mujibnagar, Meherpur, Rajbari (Faridpur) and Sathia (Pabna)
1786	Performance of garlic varieties	<ul style="list-style-type: none"> To evaluate the performance of garlic varieties under farmers condition To popularize and disseminate BARI released garlic varieties among the farmers 	Kushtia, Bogra, Rangpur, Faridpur, Pabna, Comilla, Sylhet and Bandarban of OFRD, Lalmonirhat, Thakurgaon, Magura & Gazipur
1787	Performance of chilli varieties	<ul style="list-style-type: none"> To select the suitable variety of chilli for Bhola region To increase crop production as well as farmers' income 	Bhola, Sylhet and Kushtia
1788	Performance of BARI tomato varieties in late sown condition	<ul style="list-style-type: none"> To identify suitable tomato variety for late planting To increase farmers' income 	Bhola and Dinajpur

SI No.	Research Title	Objective(s)	Location
1789	Performance of BARI pulses as fodder in between T.aman and Boro rice	<ul style="list-style-type: none"> • To find out the most suitable fodder pulse crop/s in terms of increased dry matter production and nutrition • To increase the fallow land utilization and crop diversity 	Gournadi (MLT)
1790	Performance of bilati dhonia under the different trellis	<ul style="list-style-type: none"> • To increase land use efficiency and • To increase income of the farmers 	Hathazari, Chittagong (RARS)
1791	Performance of sesame varieties at farmers field	<ul style="list-style-type: none"> • To evaluate the performance of sesame varieties at farmers field • To increase productivity and income of the farmers 	Trisha I & Phulpur, Mymensingh
1792	Performance of oilseed crops in Kanda land of Hakaluki Haor	<ul style="list-style-type: none"> • To disseminate BARI develop oil seed crops in Hakaluki haor areas 	Hakaluki haor, Moulvibazar
1793	Performance of BARI developed capsicum variety	<ul style="list-style-type: none"> • To evaluate the performance of capsicum variety in farmers field • To popularize and disseminate BARI developed capsicum variety in Sylhet 	Jalalpur (FSRD) and Madabpur, Hobigonj (MLT)
1794	Performance of bitter gourd varieties	<ul style="list-style-type: none"> • To evaluate the performance of BARI released bitter gourd variety at farmers' field • To popularize and disseminate BARI released bitter gourd variety among the farmers 	Bandarban
1795	Performance of turmeric varieties	<ul style="list-style-type: none"> • To evaluate the performance of the new turmeric varieties at Joypurhat • To increase production and income of farmer 	Bogra, Patuakhali, Kushtia and Satkhira
1796	Performance of BARI grass pea varieties	<ul style="list-style-type: none"> • To evaluate the performance of BARI grasspea varieties in Bhola • To popularize BARI grasspea varieties among the farmers of Bhola 	Sadar, Daulatkhan, Bhola
1797	Performance of soybean varieties under rainfed condition	<ul style="list-style-type: none"> • To evaluate the adaptively of soybean varieties in char lands under rainfed condition • To popularize soybean crops among the farmers of char lands <p>Location: Daulatkhan, Bhola; Laxmipur & Subornochar, Noakhali; Charlands of Jamalpur and Rangpur, (Jalalpur (FSRD), Zakigonj and Moulvibazar (MLT))</p>	
1798	Performance of BARI garden pea varieties	<ul style="list-style-type: none"> • To evaluate the performance of BARI garden pea varieties • To popularize BARI garden pea varieties among the farmers of Bhola 	Charfashion, Bhola
1799	Performance of BARI coriander variety	To find out the performance of BARI developed varieties in comparison to local variety	Purbo Shullukia, Hazirhat, Noakhali
1800	Performance of minor cereals	To evaluate the performance of minor cereals in greater Noakhali region	Laxmipur and Subornochar, Noakhali (MLT)

SI No.	Research Title	Objective(s)	Location
1801	Performance of BARI barley varieties in southern region of Bangladesh	<ul style="list-style-type: none"> To introduce the crop in southern belt of Bangladesh To identify location specific better barley variety/ varieties 	Banaripara (MLT)
1802	Performance of BARI groundnut varieties in charland areas	<ul style="list-style-type: none"> To evaluate the performance of BARI released groundnut varieties at char land area of Sariakandi To increase production and economic return 	Farmers fields of Sariakandi
1803	Performance of BARI blackgram varieties at charland of Chapainawabganj	<ul style="list-style-type: none"> To compare the economic performance of BARI released varieties and local variety at farmers level To assess the varietal impact of BARI Mash varieties in the farmers field To evaluate the farmers' attitude towards BARI Mash cultivation 	Amnura (Chapai-Nawabganj)
1804	Performance of sweet gourd varieties at farmers' field	<ul style="list-style-type: none"> To find out the suitable sweet gourd varieties To increase sweet gourd production and farmers income 	Phulbaria and Bhaluka, Mymensingh
1805	Performance of BARI released pointed gourd varieties in Rajbari	<ul style="list-style-type: none"> To evaluate the performance of newly released pointed gourd varieties To popularize the pointed gourd varieties among the farmers 	Rajbari, Shyampur, Bogra and Rangpur
1806	Seasonal incidence and management of common cutworm on aroid at farmers field condition	To observe the seasonal incidence of the pest and evaluate IPM approach	Joypurhat (MLT)
1807	Development of management practices for borer complex in Groundnut	<ul style="list-style-type: none"> To find out most effective management option for bud borer complex on groundnut To know the damage severity of the pest 	Farmers fields of Shibganj, Bogra and Thakurgaon
1808	Integrated pest management for controlling fruit borer of tomato	To assess the Eco-friendly and economical management of Helicoverpa armigera Hubner	Sylhet Sadar and Habigonj
1809	Development of eco-friendly management approach against flea beetle attacking radish	<ul style="list-style-type: none"> To find out the most effective management option for flea beetle on radish To know the damage severity of the pest 	Bogra and Comilla
1810	Performance of Bt brinjal varieties against target and non-target insects	<ul style="list-style-type: none"> Comparison of infestation levels of target insect pest (Brinjal shoot and fruit borer) on Bt brinjal varieties and non-Bt counterparts To generate information on incidence of non-target insects and natural enemies among Bt brinjal and their non-Bt counterparts 	Bogra
1811	Integrated pest management of common cutworm on chilli at Bogra region	To evaluate the effectiveness of IPM approach for controlling common cutworm in chilli	Sariakandi, Bogra

SI No.	Research Title	Objective(s)	Location
1812	Development of management approach against red spider mite of taro in High Barind Tract	To develop suitable management approach for controlling the red spider mite on taro	Kadamshahar Godagari, Rajshahi
1813	Management of wilt disease of brinjal in the farmer's field	<ul style="list-style-type: none"> To find out effective management technique for controlling the wilt disease of brinjal To increase yield of brinjal as well as farmers' income 	Jalalpur and Madabpur, Habigonj (MLT)
1814	Effect of fungicides against gummy stem blight disease of bottle gourd	<ul style="list-style-type: none"> To evaluate the efficacy of fungicides on gummy stem blight disease of bottle gourd To observe the performance of bottle gourd against disease 	Mohinonda, Kishoreganj
1815	Effect of different antibacterial materials on bacterial wilt of brinjal	<ul style="list-style-type: none"> To select the suitable antibacterial material for controlling bacterial wilt of brinjal To increase yield and income of the farmers 	Melandah, Jamalpur (MLT)
1816	Efficacy of herbicides for controlling weed at relay lentil in Faridpur region	To find out the suitable herbicide for controlling weed at relay lentil field	Pearpur, Goalkandi, Faridpur Sadar
1817	Monitoring and documentation of major insect pests of panikachu and betel leaf	<ul style="list-style-type: none"> Identification of insect pests attacking aroid Determination of damage severity of insect pests 	Joypurhat, Bogra
1818	Soil health improvement through inclusion of legume crops under existing agroforestry system	<ul style="list-style-type: none"> To find out the effect of legume crops on soil health in Litchi based agroforestry system To increase the yield and quality of fruits 	Atgharia, Pabna(MLT)
1819	Performance of potato yam as affected by tree species and planting distance from tree base under agroforestry system	<ul style="list-style-type: none"> To find out the suitable tree species grown in homestead area for potato yam production To identify the optimum planting distance of yam from tree base 	Pushpapara, Pabna(FSRD)
1820	Performance of turmeric varieties in mango-turmericagroforestry system	<ul style="list-style-type: none"> To popularize the BARI developed turmeric varieties in the hilly areas To increase yield and farmers' income 	Bandarban
1821	Yield potentiality of different cropping patterns in mango orchard as agroforestry system	<ul style="list-style-type: none"> To find out the suitable cropping pattern at Mango orchard in Rangpur To increase total production and income of the farmers 	Pirganj, Rangpur (MLT)
1822	Feasibility of growing shade tolerant crops in mango & litchi orchard under agroforestry systems	<ul style="list-style-type: none"> To introduce short duration shade tolerant crops in agroforestry systems To increase productivity and income of the agroforestry systems 	Pushpapara and Atghoria
1823	Feasibility of growing summer vegetables in mango orchard under agroforestry system	To observe the performance of different summer vegetables in agroforestry system	Shibpur, Puthia, Rajshahi

SI No.	Research Title	Objective(s)	Location
1824	Performance of pineapple varieties in mango orchard under agroforestry system	<ul style="list-style-type: none"> To test the performance of pineapple varieties in mango-pineapple agroforestry system in the hilly areas To increase farmers income 	Bandarban
On-Farm Trials With Advanced Lines and Technologies			
1825	On-Farm Trial of BARI released Bt brinjal varieties	<ul style="list-style-type: none"> To evaluate the performance of Bt brinjal varieties under the farmers' field condition To popularize the varieties among the farmers to promote their adoption in different areas of Bangladesh <p>Location: Pabna, Shyampur, Barind, Rangpur, Bogra, Rajbari, Dinajpur, Jamalpur, Tangail, Mymensingh, Kishoreganj, Jessore, Khulna, Kushtia, Faridpur, Patuakhali, Bhola, Hathazari, Noakhali, Comilla, Sylhet, Bandarban, Gazipur, Narsingdi, Manikgonj, Gopalganj</p>	
1826	Adaptive trials with low water required white grain hybrid maize in large plot at Barind areas	<ul style="list-style-type: none"> To test the performance of locally developed promising low water required hybrid maize & selection of short stature best one(s) for Barind areas For quick dissemination of the target technology to the farmers in Barind areas 	Rajshahi
1827	Adaptive trial of selected promising high yielding HTMA field corn hybrids	<ul style="list-style-type: none"> To test the performance of locally developed promising field corn Hybrids & selection of medium height best one(s) For quick dissemination of the target technology to the farmers 	Barind, Rajshahi
1828	Production of promising selected hybrids of field corn, pop corn, baby corn, QPM, drought and excess soil moisture tolerant maize	<ul style="list-style-type: none"> To increase hybrid seeds of selected crosses in each set & To observe the performance of the hybrids in different locations 	Gazipur, Rangpur, Bogra & Pabna
1829	Maintenance and seed production of BARI composite maize varieties (5 Sets)	<ul style="list-style-type: none"> To supply breeder's seed to BADC & other organization To maintain the purity of the popular composite varieties To supply seed directly to farmers and in hilly areas tribal farmers 	Comilla- Set III (BM 7) Kishoregonj- Set IV (Mohar), Set V Khoibhutta
1830	Adaptive trials with BARI barley varieties in Southern belt and Barind tract	<ul style="list-style-type: none"> To observe the performance of BARI barley varieties in dry and saline areas To disseminate and popularize BARI barley varieties to the farmers of saline and dry areas 	Saline areas Noakhali (3 locations), Barind tract (3 locations)
1831	Adaptive trials with BARI barley varieties in Char areas	<ul style="list-style-type: none"> To observe the performance of BARI barley varieties in Char areas To disseminate and popularize BARI barley varieties to the farmers of Char areas <p>Location: Saline areas OFRD Rangpur (2 location), OFRD Bogra (2 location), OFRD Jamalpur (2 location), OFRD Tangail (2 location)</p>	

SI No.	Research Title	Objective(s)	Location
1832	On-farm trial of BARI developed summer eggplant variety	To evaluate the performance of the variety in farmers' field Location: Bogra, Narasindi, Pabna, Rangpur, Shatkhira, Daulatpur, Khulna, Noakhali and Mymensingh	
1833	On-farm trial of BARI developed winter tomato variety	To evaluate the performance of the variety under farmers' field Location: Rangpur, Rajshahi, Comilla, Patuakhali, Daulatpur, Khulna, Pabna, Sylhet, Noakhali, Bandarban, Chittagong (Hathazari)	
1834	On-farm trial of BARI developed winter hybrid tomato	To evaluate the performance of winter variety in farmers' field Location: Comilla, Mymensingh, Narshingdi, Shyampur, Daulatpur, Khulna, Rangpur, Pabna, Bandarban, Patuakhali and Gazipur	
1835	On-farm trial of BARI developed summer hybrid tomato	To evaluate the performance of summer hybrid tomato variety in farmers' field Location: Comilla, Shyampur, Rangpur, Pabna, Daulatpur, Khulna, Bandarban, Patuakhali and Noakhali	
1836	On-farm trial of BARI developed bottle gourd variety for summer	To evaluate the performance of the summer bottle gourd variety in farmer's field Location: Rangpur, Narsingdi, Patuakhali, Jessore, Daulatpur, Khulna Noakhali and Chittagong (Hathazari)	
1837	On-farm trial of BARI developed ridge gourd variety	To evaluate the performance of ridge gourd variety in farmer's field Location: Rangpur, Narsingdi, Patuakhali, Jessore, Daulatpur, Khulna Noakhali and Chittagong (Hathazari)	
1838	On-farm trial of BARI developed country bean variety	To evaluate the performance of BARI Sheem-6 at different locations Location: Daulatpur, Khulna, Rangpur, Sylhet, Mymensingh, Bandarban, Noakhali, Bhola and Tangail	
1839	On-farm trial of BARI developed summer hyacinth bean variety	To evaluate the performance of BARI Sheem 7 at different locations during summer Location: Comilla, Pabna, Patuakhali, Rangpur, Sylhet, Mymensingh and Bandarban	
1840	On-farm trial of BARI developed broccoli variety	To evaluate the performance of broccoli variety in farmer's field Location: Comilla, Mymensingh, Patuakhali, Bandarban, Pabna, Rangpur and Noakhali	
1841	On-farm trial of BARI developed hybrid pumpkin variety	To evaluate the performance of pumpkin variety in farmer's field Location: Daulatpur, Khulna, Comilla, Mymensingh, Patuakhali, and Rangpur	
1842	On-farm trial of BARI developed spinach variety	To evaluate the performance of spinach variety in farmer's field Location: Comilla, Mymensingh, Patuakhali, Pabna, Bandarban, Noakhali and Rangpur	
1843	On-farm trial of BARI developed okra variety	To evaluate the performance of okra variety in farmer's field Location: Comilla, Mymensingh, Patuakhali, Pabna, Bandarban, Rajshahi and Rangpur	

SI No.	Research Title	Objective(s)	Location
Technology from ORC			
1844	Adaptive trial of advanced lines of rapeseed	<ul style="list-style-type: none"> To evaluate the performance of advanced lines of rapeseed in the farmers field To develop high yielding variety of rapeseed 	Pabna, Comilla and Netrakona
1845	Adaptive trial of advanced lines of sesame	<ul style="list-style-type: none"> To evaluate the performance of advanced lines of sesame in the farmers field at different locations of Bangladesh To develop high yielding variety of sesame 	Faridpur, Kushtia, Khulna, Patuakhali, Gopalganj
1846	Validation of Mustard– Sesame - T.aman cropping pattern in farmers field of Barind area	To increase productivity and thereby income generation to the farmers	Barind tract
1847	Performance of selected groundnut genotypes in charland areas	To select suitable genotypes of groundnut for charland	Jamalpur, Gopalganj
1848	Performance of sesame varieties in Barind tract areas	<ul style="list-style-type: none"> To find out the influence of barind environment on vegetative growth, flowering behavior, pod setting and seed development in sesame varieties To select suitable variety of sesame for barind areas 	Pabna, Rajshahi
1849	Effect of different type of mustard variety in mustard-rice mixed cropping system.	To identify the suitable mustard variety in mixed mustard-rice cropping system	Comilla
Pulses Research Centre			
1850	Regional Yield trial of Blackgram	<p>Selection of stable genotypes over different locations for PVS which are prerequisite for variety development</p> <p>Location: PRC, Ishwardi, PRSS, Gazipur, RPRS, Madaripur, RARS Jessore, RARS, Jamalpur and MLTs Amnura, Chapainawabgonj</p>	
1851	Field Screening for Adaptability of Blackgram genotypes in High Barind Tract	To evaluate the high yielding blackgram genotypes adaptable to drought prone environment	Godaghari, Rajshahi
1852	Fertilizer management of lentil at char land area of Bhuapur, Tangail (AEZ-8)	<ul style="list-style-type: none"> To find out economic fertilizer dose for lentil at the char land of Bhuapur, Tangail To increase production and economic return 	Charland of Bhuapur, Tangail
1853	Validation of inter mixed cropping garden pea with onion	To validate the developed technology of garden pea with onion inter mixed cropping system in farmer's field	Jamalpur, Sherpur and Pabna
1854	Validation of intercropping lalshak with chilli	To validate the standerdized lalshak population suitable for intercropping with chilli	Bandarban, Hathazari, Patuakhali and Jamalpur
1855	Validation of fertilizer management of hybride maize after potato harvest	To validate the developed fertilizer management of hybride maize after potato harvest in farmers field	Rangpur, Bogra and Jessore

SI No.	Research Title	Objective(s)	Location
1856	Validation of planting technique of potato	To validate the planting technique of potato in farmers' field	Jessore, Rangpur, Jamalpur and Kushtia
1857	Validation of potato + sweet corn intercropping systems	To validate the developed potato + sweet corn intercropping systems in farmers' field	Jamalpur, Jessore, Rangpur and Banderban
1858	Validation of intercropping lentil with brinjal at varying planting geometry	To validate the developed lentil with brinjal intercropping system in farmers field	Jessore, Tangail, Jamalpur, Mymansing and Kushtia.
1859	Validation of fertilizer management of chilli + sweet gourd intercropping	To validate the developed fertilizer management of chilli + sweet gourd intercropping in farmers field	Jamalpur, Manikganj, Pabna and Banderban
1860	Validation of chilli and hybrid maize intercropping under different planting systems in hilly areas	To validate the developed chilli and hybrid maize intercropping systems in farmers field	Bandarban
1861	Validation of intercropping leaf-amaranth with brinjal	To validate the developed leafy vegetables with brinjal intercropping systems in farmers' fields	Jessore and Bogra
1862	Validation of spianch + sweet gourd intercropping systems	To validate the developed spianch + sweet gourd intercropping systems in farmers' fields	Jamalpur
1863	Validation for fertilizer management of mukhikachu	To validate the developed fertilizer dose of mukhikachu in farmers field	Pabna and Jamalpur
Soil Science Division			
1864	Effect of conservation tillage and residue management on soil moisture retention and productivity of Chickpea- Maize- T. Aman rice cropping pattern in Barind soil	<ul style="list-style-type: none"> • To observe the effect the tillage practices and residue management on soil moisture retention • To make the best use of residual soil moisture in Barind tract's. • To increase the crop productivity of the pattern 	Barind, Rajshahi
1865	Effect of raised bed planting and potassium application on the mitigation of soil salinity and yield of maize	<ul style="list-style-type: none"> • To test the possibility that salinity damage can be reduced by elevating K fertilization rate • To study the effects of salinity and K fertilization interactions on maize yield and nutrient uptake • To study K dynamics in soil as a function of the salinity of the irrigation water 	Noakhali and Patuakhali
1866	Response of groundnut varieties to elite strains of	• To study the effect of Bradyrhizobium inoculation and varieties at different	Kishoregonj

SI No.	Research Title	Objective(s)	Location
	<i>Bradyrhizobium</i>	locations and <ul style="list-style-type: none"> To popularize the use of Bradyrhizobium inoculant instead of applying urea-N for groundnut production 	
1867	Response of chickpea varieties to elite strains of <i>Rhizobium</i>	<ul style="list-style-type: none"> To study the response of Rhizobium inoculation with different varieties of chickpea To study the effect of Rhizobium inoculation and varieties at different locations and To popularize the use of Rhizobium inoculant instead of applying urea-N for chickpea production 	Barind (Rajshahi)
1868	Use of vermicompost for improving the yield and nutritional quality of cabbage	<ul style="list-style-type: none"> To study the effect of vermicompost on the growth and yield of cabbage To assess the effect of vermicompost on the nutritional quality of cabbage 	Rangpur
Integrated Farming Systems (OFRD)			
1869	Integrated Farming for Improving Livelihood of Resource Poor Farm Households in a Participatory Approach	<ul style="list-style-type: none"> Optimization of homestead land use, availability of vegetable round the year Utilization of women and child labour, adequate supply of vitamin A and C and also supply of good quantity of iron, calcium and thiamin Farmer's social status improved through intervention of new and profitable technologies as Income Generating Activities Minimize degradation of soil fertility and improve human nutrition by incorporating leguminous crops in the existing cropping pattern Strengthen linkage among researchers, extension agents and farmers to expedite technology transfer process 	FSRD site of Pabna, Tangail, Patuakhali, Barind (Rajshahi), Rangpur, Faridpur, Noakhali, Sylhet and Jamalpur
1870	Evaluation of different components under farming system for small and marginal farmers under young Meghna estuary floodplain	<ul style="list-style-type: none"> The approach aims at increasing income and employment for small and marginal-holding by integrating various farm enterprises and recycling crop residues and by products within the farm itself For efficient utilization of available farm resources and to increase the income per unit of land 	Subarnachar; Hatiya, Noakhali
1871	Utilization of fisheries <i>gher</i> boundary with year round vegetables in the coastal area	To evaluate the performance different rabi and kharif vegetables in the gher boundary.	Debhata, Satkhira and Koyra, Khulna
Socio Economic Studies (OFRD)			
1872	A socio-economic study on existing mixed and intercropping system at farmers.	<ul style="list-style-type: none"> To know the existing multiple cropping practices To assess the profitability To identify the constraints and potentiality of those practices 	Rangpur, Jessore, Jamalpur and Chittagong

SI No.	Research Title	Objective(s)	Location
1873	A socio-economic study of agroforestry practices.	<ul style="list-style-type: none"> To document the agroforestry systems practiced by the farmers in the selected areas To examine the resource use efficiency of crops, vegetables, fruits and spices enterprises To evaluate the profitability of major fruit trees through investment analysis To make suggestions for future development of agroforestry practices 	Noakhali, Rajshahi and Mymensingh
1874	Study on the status of BARI developed technologies.	<ul style="list-style-type: none"> To estimate the adoption rate of BARI developed technologies in the study areas To observe the management practice of the technologies in farm level To evaluate the profitability of adopted technologies To identify the problems related to adoption of the technologies 	Rangpur, Jamalpur, Faridpur and Patuakhali
1875	A Socioeconomic study on the utilization pattern and impact of Super Granular Urea (USG) at farmer's field on different crops.	<ul style="list-style-type: none"> To know the existing utilization pattern of the granular urea To know the impact and productivity on different crops and vegetables applying USG To know the economic profitability. To identify the constraints and potential of USG 	FSRD site, Tangail
1876	Impact assessment of integrated farming systems.	<ul style="list-style-type: none"> To determine the extent of adoption of intervened technologies To evaluate the impact of FSRD activities on resources use, productivity and socioeconomic development To explore the constraints of the technologies 	FSRD sites Jamalpur, Noakhali and Tangail
1877	Socio-Economic study on Cabbage and Cauliflower production in Some Selected Areas of Bangladesh	<ul style="list-style-type: none"> To know the agronomic practices of cabbage and cauliflower farmers To know the factors affecting on yield To estimate profitability of cabbage and cauliflower and compare its profitability with other competitive crops; and To find out the constraints to cabbage and cauliflower cultivation 	Kushtia and Jessore
1878	Input use and profitability of different crops under major cropping patterns in some selected areas of Bangladesh	<ul style="list-style-type: none"> To document the input use level of different crops under major cropping patterns To estimate the profitability of the crops in major cropping pattern 	All FSRD sites
1879	Impact of hybrid rice and maize seed in cereal production system in Bangladesh	<ul style="list-style-type: none"> To observe hybrid rice and maize seed production and marketing scenario in Bangladesh To find out farmers perception about the 	Gopalganj, Sherpur, Rangpur, Lalmonirhat,

SI No.	Research Title	Objective(s)	Location
		hybrid seeds • To analyze the efficiency of the farmers' using hybrid seed in rice and maize growing area • To suggest some policy implications about hybrid rice and maize seed for increasing cereal production in Bangladesh	Jessore and Jamalpur
Transfer of technology			
1880	Production program of different low water requirement crops in High Barind Tract	• To validate and popularize the BARI developed low water requirement crop varieties in the drought prone area of High Barind Tract	Barind Rajshahi
1881	Seed production of BARI composite maize varieties	• To supply breeder's seed to BADC & other organization • To maintain the purity of the popular composite varieties • To supply seed directly to farmers and in hilly areas tribal farmers	Comilla, Rangpur
1882	Production of quality seed potato at farmers level through seed plot technique	• To improve the quality of farmer's seed potato • To increase the over all potato production of the country Location: All major potato growing districts (27 districts) such as Bogra, Chandpur, Chittagang, Comilla, Dinajpur, Faridpur, Gaibandha, Gazipur, Jamalpur, Jessore, Joypurhat, Kishoreganj, Kurigram, Munshiganj, Nilphamari, Pabna, Patuakhali (RHRS), Patuakhali (OFRD), Rajshahi (Barind), Rajshahi (Shampur) Rangpur, Satkhira, Sherpur, Gopalganj, Barisal, Bhola, Mymensingh and Thakurgaon (in total 380 trials)	
1883	Production program of Cereals, Pulses, Oilseeds, Vegetables and Spices in Different Agro-Ecological Zones	To validate and popularize the BARI developed crop varieties in different agro-ecological zone in Bangladesh. Location: Bogra: BARI Motorshuti 1, BARI Motorshuti 3, BARI Dherosh 1, BARI Mung 6, Bhola: BARI Mung 6, BARI Sarisha 11, 14 & 16, Kishoreganj : BARI Sharisa 14 & 15, Kushtia : BARI Masur 7, Bandarban: BARI Hybrid Maize 9, BARI Sarisha 11, Faridpur: BARI Gom 28, BARI Masur 7, Sylhet: BARI Gom 25 and 28, BARI Hybrid Maize 9, BARI Khesari 2, BARI Sarisha 15 & 16, BARI Panikachu 1, BARI Malta 1	
1884	Variety demonstration of Wheat	• Evaluating new varieties by the farmers comparing with widely grown one • Preserving and disseminate seeds of farmers' preferred varieties through farmers to farmers and • Increasing varietal diversity Location: Faridpur, Barishal, Patuakh, Jessore, Jamalpur, Comilla, Sylhet, Khulna, Dinajpur, Jamalpur, Rajshahi, CARITAS, Din World Vision, Din PAUP, Dinajpur, ASRAY, Rajshahi, CARB, Rajshahi, Proshikha, Rajshahi. Proshikha, Barisal, CSISA, Mymensingh, LGED, (BARI-06, Noagaon-06=12	
1885	Up scaling PTOS for improving productivity	Select suitable genotypes suitable for PTOS tillage systems at Barind Area.	Rajshahi

SI No.	Research Title	Objective(s)	Location
	and sustainability in the drought prone (Barind) areas		

REGIONAL AGRICULTURAL RESEARCH STATION (RARS), JAMALPUR

1886	Evaluation of bottle gourd germplasm	To observe the performance of yield and yield contributing characters of bottle gourd germplasm for winter	Jamalpur
1887	Collection and evaluation of sponge gourd germplasm	To observe the performance of yield and yield contributing characters of sponge gourd germplasm	Jamalpur
1888	Collection and evaluation of bitter gourd germplasm	To observe the performance of yield and yield contributing characters of bitter gourd germplasm	Jamalpur
1889	Evaluation of hyacinth bean germplasm	<ul style="list-style-type: none"> To observe the performance of yield and yield contributing characters of hyacinth bean germplasm 	Jamalpur
1890	Effect of pseudostem cutting on the growth and yield of banana	<ul style="list-style-type: none"> To evaluate the performance of pseudostem cutting on the growth and yield of banana To make robust the plant To prevent pseudostem breaking due to storm 	Jamalpur

Entomology Division

1891	Survey, monitoring and documentation of major insect pests and their natural enemies of ground nut	Identification of insect pests attacking ground nut determination of damage severity of insect pests	Jamalpur
1892	Field validation of integrated management of common cutworm, <i>Spodoptera litura</i> on aroid at farmers' field condition	To evaluate the performance of IPM approach in controlling common cutworm	Jamalpur
1893	Development of management approach against mango fruit fly, <i>Bactrocera dorsalis</i>	To find out the appropriate management approach for controlling mango fruit fly	Jamalpur
1894	Development of management approach against guava fruit fly, <i>Bactrocera dorsalis</i>	To find out the appropriate management approach for controlling mango fruit fly	Jamalpur

Agronomy Division

1895	Weed control methods in sesame	To find out the suitable weeding methods for controlling weeds in sesame.	Jamalpur
1896	Intercropping of sweet gourd with brinjal at different Plant population	To find out the optimum population of Sweet gourd intercropped with Brinjal	Jamalpur

SI No.	Research Title	Objective(s)	Location
Plant Breeding Division			
1897	Performance of maize hybrids at different char areas in Jamalpur and Sherpur	<ul style="list-style-type: none"> To observe the performance of maize hybrids in different char areas. To popularize maize hybrids to the farmers 	Jamalpur
Soil Science Division			
1898	Effect of arbuscular mycorrhizal fungi and vermicompost on growth and yield of onion	<ul style="list-style-type: none"> To increase yield of onion using arbuscular mycorrhizal fungi and vermicompost To improve P use efficiency as regulated by arbuscular mycorrhizal fungi To sustain soil health 	Nawbangha char, Jamalpur
1899	Response of groundnut to the combined application of bio-char and bio-fertilizer	<ul style="list-style-type: none"> To increase the Nitrogen fixing bacterial activities To improve the yield and quality of groundnut To sustain the soil health 	Jamalpur
Plant Pathology Division			
1900	Survey on Choanephora Blight Disease of Chilli	To assess the disease status of choanophora blight of chilli	Jamalpur
1901	Screening of groundnut germplasm against white mould disease under natural field condition	To find out the resistance source of groundnut genotypes against white mould disease	Jamalpur
1902	Production and marketing problems and constraints of major pulses in char land: Searching options for the agro-economic improvement of small farmers	<ul style="list-style-type: none"> To evaluate the position of pulses in the present farming system of char land To study the agro-technology of pulse production by farmers To identify the social, economic and biological problems and constraints faced by the farmers 	Jamalpur and Sherpur
1903	Adoption and profitability of wheat varieties in Jamalpur and Sherpur district	<ul style="list-style-type: none"> To know the adoption of improved wheat varieties and their management technologies at farm level To estimate the cost and return of wheat varieties 	Jamalpur and Sherpur
1904	Seed production of BARI released varieties and advanced lines of groundnut	Different groundnut varieties' seed will be produced	Jamalpur
1905	Intercropping Maize with groundnut at the charland of Jamalpur	<ul style="list-style-type: none"> To increase economic return of farmers To maintain soil health 	Dewangonj
RARS, HATAHAZARI			
1906	Performance of Bilati Dhonia (<i>Eryngium foetidum</i> L.) under the Different Trellis	<ul style="list-style-type: none"> To increase land use efficiency and To increase income of the farmers 	Hathazari, Chittagong
1907	Management of Fusarium Wilt Disease of Water Melon	To find out the effective disease management package (s) against fusarium wilt of water melon	Hathazari, Chittagong

SI No.	Research Title	Objective(s)	Location
1908	Fungicidal Management of Anthracnose of Country Bean	To find out the effective fungicide (s) to control anthracnose of country bean	Hathazari, Chittagong
1909	Irrigation scheduling and response to alternate wetting and drying irrigation method in Latiraj (BARI panikachu-1)	<ul style="list-style-type: none"> To find out the optimum irrigation scheduling of BARI panikachu-1 Response to alternate wetting and drying method (AWD) 	Hathazari, Chittagong
1910	Adaptive trial of newly Released Wheat Varieties in Chittagong region	To find out the yield performance of wheat	Hathazari, Chittagong
1911	Yield potentialities of some promising mango varieties in Chittagong region	To find out best mango variety in Chittagong region	Hathazari, Chittagong
1912	Effect of root stock on the success of side grafting in elephant's foot apple	To find out suitable root stock for grafting in elephant's foot apple	Hathazari, Chittagong
1913	Determination of sowing time of BARI Sarisha 14 & BARI Sarisha 15 in Chittagong region	<ul style="list-style-type: none"> To determine the optimum sowing time of BARI sarisha 14 & BARI sarisha 15 in Chittagong region To adjust the sowing time in boro-based cropping pattern 	Hathazari, Chittagong
1914	Observation of the performance of sesame varieties under the agro-ecological Condition of Chittagong.	To find out suitable high yielding variety for Chittagong region	Hathazari, Chittagong
1915	Extent of Adoption of BARI released mango varieties and its production technologies by mango growers in Chittagong region.	<ul style="list-style-type: none"> To analyze the actual adoption status of BARI released mango varieties and to estimate the marketed surplus of mango production in last year To assess the contribution of various independent variables to the variation in the extent of adoption of BARI released mango varieties 	Hathazari, Fatikchhari, Sitakundo, Bashkhali and Patia
RARS, MOULVIBAZAR			
1916	Regional yield trial of selected semi-indeterminate tomato lines	Determining yield potentiality and pest and diseases reactions of selected semi indeterminate tomato lines at different AEZ	Akbarpur, Moulvibazar
1917	Regional yield trial of selected beta carotene rich tomato lines	<ul style="list-style-type: none"> To assess the yield potentiality of beta carotene rich tomato lines at different AEZ To develop high yielding, common diseases and pest resistant beta carotene rich tomato variety 	Akbarpur, Moulvibazar

SI No.	Research Title	Objective(s)	Location
1918	Regional yield trial of t_y gene inserted tomato lines for yield and disease resistance(cherry type)	<ul style="list-style-type: none"> To assess the yield potentiality of tomato lines at different AEZ To develop OP tomato variety and inbreed lines for tomato's hybrid variety development 	Akbarpur, Moulvibazar
1919	Regional yield trial of tomato lines for processing	<ul style="list-style-type: none"> Assessing the yield potentiality of processing type tomato lines at different AEZ To develop processing type tomato variety for Bangladesh 	Akbarpur, Moulvibazar
1920	Regional yield trial of T_y gene inserted tomato lines for yield and disease resistance	<ul style="list-style-type: none"> To assess the yield potentiality of tomato lines at different AEZ To develop OP tomato variety and inbreed lines for tomato's hybrid variety development 	Akbarpur, Moulvibazar
1921	Regional yield trial of winter bottle gourd lines	<ul style="list-style-type: none"> To evaluate the advanced Bottle gourd lines in respect of yield and quality at different location of the country To observe insect, pest and disease reaction 	Akbarpur, Moulvibazar
1922	Regional yield trial of eggplant hybrids for winter	<ul style="list-style-type: none"> To develop high yielding eggplant hybrid varieties. To select hybrid variety tolerant to FSB and Bacterial wilt 	Akbarpur, Moulvibazar
1923	Regional yield trial of eggplant lines for winter	To develop high yielding OP eggplant hybrid varieties tolerant to FSB and Bacterial wilt	Akbarpur, Moulvibazar
1924	Regional yield trial of pumpkin hybrids	<ul style="list-style-type: none"> To observe adaptability of selected hybrids of pumpkin at different agro ecological regions for yield and quality To select suitable hybrids for release as variety 	Akbarpur, Moulvibazar
1925	Regional yield trial of french bean	To evaluate the selected French bean line in respect of yield and quality at different location	Akbarpur, Moulvibazar
1926	Regional yield trial of selected spinach lines	To evaluate the performance of selected spinach line	Akbarpur, Moulvibazar
1927	Evaluation of off season jackfruit germplasm	To find out the superior off-season and year round variety	Akbarpur, Moulvibazar
1928	Collection and evaluation of local/sour type ber germplasm	<ul style="list-style-type: none"> To select suitable ber varieties for different regions To conserve fruit genetic resources 	Akbarpur, Moulvibazar
1929	Collection and evaluation of local pummelo germplasm	To select superior pummel lines for releasing as variety and conserve fruit genetic resources	Akbarpur, Moulvibazar
1930	Collection and evaluation of satkara, & jara lemon germplasm	To characterize and select suitable line(s) and conserve fruit genetic resources	Akbarpur, Moulvibazar
1931	Collection and evaluation of rose apple germplasm	To select superior lines and conserve fruit genetic resources	Akbarpur, Moulvibazar

SI No.	Research Title	Objective(s)	Location
1932	Collection and evaluation of bael, wood apple, custard apple germplasm	To select superior lines and conserve fruit genetic resources	Akbarpur, Moulvibazar
1933	Collection and evaluation of lukluki germplasm	To select superior lines and conserve fruit genetic resources	Akbarpur, Moulvibazar
1934	Evaluation of avocado lines	To study yield and quality of fruits lines of avocado	Akbarpur, Moulvibazar
1935	Effect of various rootstocks on the performance and yield of pummelo	To find out suitable rootstocks for pummelo and increase yield	Akbarpur, Moulvibazar
1936	Effect of various rootstocks on the performance and yield of mandarin	To find out suitable rootstocks for mandarin and increase yield and fruit quality of mandarin	Akbarpur, Moulvibazar
RARS, KHAGRACHARI			
1937	Influence of cover crop (<i>Mimosa invisa</i>) in controlling weed & soil erosion in hilly area	To find out the effect of <i>Mimosa invisa</i> in controlling weed and soil erosion	Khagrachari
1938	Development of suitable Pest Management Package for Mango in Hilly Area	To find out the effective management tools against mango pest	Khagrachari
1939	Survey of fruit diseases in Hilly region of Bangladesh	To identify different diseases of major fruits grown in hilly area	Khagrachari
1940	Effect of ringing, etiolation and IBA concentrations on success and survivability of rambutan cutting.	<ul style="list-style-type: none"> Standardization of techniques for vegetative propagation by shoot cutting of rambutan To find out the appropriate dose of IBA concentrations 	Khagrachari
1941	Effect of forcing, etiolation and IBA concentrations on success and survivability of rambutan layering.	<ul style="list-style-type: none"> Standardization of techniques for vegetative propagation by air layering of rambutan To find out the appropriate dose of IBA concentrations 	Khagrachari
1942	Effects of integrated nutrient management on the performance of mango in hills	To identify better combination of organic and inorganic fertilizer package for sustainable productivity of mango in hill	Khagrachari & Bandarban
1943	Effect of liming on yield performance of Mango	<ul style="list-style-type: none"> To observe the effectiveness of added lime on the crop performance To observe Phosphorous uptake as affected by liming 	Khagrachari
1944	Development of suitable Pest Management Package for Mango in Hilly Area	To find out the effective management tools against mango pest	Khagrachari

SI No.	Research Title	Objective(s)	Location
1945	Identification and management of black spot disease of BARI Malta-1 in hilly region	To find out an effective control measure against black spot disease of malta	Khagrachari
1946	Effect of drip irrigation on yield performance of Malta in hill slope of Khagrachari	To determine the appropriate irrigation schedule and requirement of water of Malta during dry season	Khagrachari
1947	Effect of fertilizer packages on yield and yield contributing characters of onion in hill valley	To find out the effect of fertilizer on onion production and quality in hilly area	Khagrachari
1948	Intercropping lalshak with chilli under different planting system	To find out profitable chilli and lalshak combination of getting higher productivity	Khagrachari
1949	Performance of mango (kacha mita) germplasm	<ul style="list-style-type: none"> To find out superior genotypes of mango (kacha mita) germplasm for better yield and insect-pest resistant To develop a suitable mango (kacha mita) variety for commercial cultivation at hilly region 	Khagrachari
1950	Performance of off-season mango germplasm	To find out superior genotypes of off-season mango germplasm for better yield and insect-pest resistant	Khagrachari
1951	In-situ evaluation of year round pummelo germplasm	To find out superior genotypes of pummel germplasm for better yield and insect-pestresistant	Khagrachari
1952	Effect of fertilizer packages on yield and yield contributing characters of hybrid varieties of maize in hill valley	To find out suitable fertilizer packages for hill valley	Khagrachari
1953	Evaluation of sweet orange germplasm	To find out superior genotypes of sweet orange for better yield and insect-pest resistant of sweet orange variety	Khagrachari
1954	Collection and evaluation of mandarin germplasm	<ul style="list-style-type: none"> To find out superior genotypes of mandarin for better yield and insect-pest-resistant To develop a suitable sweet orange variety 	Khagrachari
1955	Rejuvenation of old malta orchard by integrated management practices	To find out suitable protocol for rejuvenation of old malta orchard	Khagrachari
1956	Collection and evaluation of citrus (jara lebu) germplasm	To find out superior genotypes of jara lebu for better yield	Khagrachari
1957	Survey on the prevalence of greening disease of citrus species	To identify different diseases of major fruits grown in hilly area	Khagrachari

SI No.	Research Title	Objective(s)	Location
1958	Survey on the prevalence of gummosis disease of citrus	To identify different diseases of major fruits grown in hilly area	Khagrachari
1959	Canker disease management in citrus fruit	To find out the effective management tools against Canker disease citrus	Khagrachari
RARS, JESSORE			
1960	Development of fertilizer packages for five crop based cropping pattern in rice based cropping system	Development of fertilizer package for four crop based cropping pattern and increase farmer's income	Jessore
1961	Development of five crop-based cropping pattern for increasing cropping intensity and productivity	Increase cropping intensity and productivity in rice based Cropping system and increase farmer's income	Jessore
1962	Effect of drought on growth and yield of hybrid maize	To evaluate effect of drought stress on growth stages of hybrid maize	Jessore
1963	Developmental stages, growth indices and yield of hybrid maize cultivars as affected by growing seasons	To evaluate developmental stages, growth indices and yield in rabi and kharif-1	Jessore
1964	Phenology, growth, GDD and yield of wheat varieties	<ul style="list-style-type: none"> To find out phenology, light extinction co-efficient and radiation use efficiency of wheat To evaluate dry matter partitioning and yield of wheat 	Jessore
1965	Effect of sowing date on mustard	To find out phenology, light extinction co-efficient and radiation use efficiency and yield of mustard	Jessore
1966	Effect of different tillage and fertilization method on Maize	To evaluate effect of tillage and fertilizer on growth and yield of maize	Jessore
1967	Effect of twig removing on growth and yield of garden pea	To find out the optimum time and length of twig for clipping for maximum pod and vegetable yield	Jessore
1968	Yield performance of maize under different planting systems in T. Aman- Maize-Mungbean cropping pattern	<ul style="list-style-type: none"> To evaluate effect of planting systems on growth of maize To evaluate yield performance of maize under CA systems 	Jessore
1969	Chilli and hybrid maize intercropping under different planting systems	To find out suitable combination of chilli and hybrid maize intercropping system for higher productivity	Jessore
1970	Hybrid maize Indian spinach intercropping under different planting systems	To find out suitable combination of chilli and hybrid maize intercropping system for higher productivity	Jessore

SI No.	Research Title	Objective(s)	Location
1971	Effect of fertilizer management of flower yield of gladiolus	To evaluate the response of gladiolus of different doses of fertilizers	Godkhali, Jhikargacha Jessore
1972	Effect of vermi and conventional compost on Bt Brinjal	To find out the suitable dose of vermicompost, comost and chemical fertilizers for maximizing the yield of Bt. Brinjal	Jessore
1973	Effect of fertilizers on mustard as relay cropping with T. Aman rice	To find out the optimum fertilizers dose for mustard as relay cropping with T. Aman rice	Jhikargach, Jessore
1974	Intercropping of different vegetables with summer tomato	To determine the performance of different vegetables as intercrops with summer tomato	Tularampur, Narail
1975	Intercropping of garden pea with hybrid maize	To popularize garden pea intercropping with maize	Kaligonj, Jhenaidah,
1976	Effect of planting date on the performance of summer tomato	To find out optimum planting date for maximizing the yield of summer tomato cultivation	Tularampur, Narail
1977	On-Farm Trial of BARI released Bt brinjal varieties	<ul style="list-style-type: none"> To evaluate the performance of Bt brinjal varieties under the farmers' field condition To popularize the varieties among the farmers to promote their adoption in different areas of Bangladesh 	Jhikargach Jessore five trial
1978	On-Farm Trial of BARI developed bottle gourd variety for summer	To evaluate the performance of the summer bottle gourd variety in farmers' field	Jhikargach, Jessore
1979	Regional Yield trial of Blackgram	Selection of stable genotypes over different locations for PVS which are prerequisite for variety development	Jessore
1980	Validation of fertilizer management of hybrid maize after potato	To validate the developed fertilizer management of hybride maize after potato harvest in farmers field	Kaligonj, Jhenaidah,
1981	Validation of planting technique of potato	To validate the planting technique of potato in farmers' field	Jhikargach, Jessore
1982	Validation of potato + sweet corn intercropping systems	To validate the developed potato + sweet corn intercropping systems in farmers' field	Jhikargach, Jessore
1983	Validation of intercropping lentil with brinjal at varying planting	To validate the developed lentil with brinjal intercropping system in farmers field	Shemakhali, Magura
1984	Validation of intercropping leaf + amaranth with brinjal	To validate the developed leafy vegetables with brinjal intercropping systems in farmers' field	Shemakhali, Magura
1985	Comparative potential of different IPM packages and their economics against major insect pests of Brinjal	<ul style="list-style-type: none"> Validation and up scaling of IPM package for the control of major insect pests of brinjal Production of toxic synthetic chemical pesticide free brinjal 	Jessore
1986	Up scaling and field validation of bio-rational	<ul style="list-style-type: none"> To validate and up scale IPM package for the control of major insect pest of cucurbit 	Jessore

SI No.	Research Title	Objective(s)	Location
	based integrated management package against major insect pests of cucurbit	crops • To produce toxic synthetic chemical pesticide free cucurbits	
1987	Efficacy of different new insecticides against Brinjal shoot and fruit borer	To find out the effective insecticide for controlling brinjal shoot and fruit borer	Jessore
1988	Study on the interaction effect of planting time and spray schedule with fungicide on development of Stemphylium blight of lentil	To find out the integration effect of planting time and spray schedule in controlling stemphylium blight of lentil	Jessore
1989	Study on Botrytis blight development in gladiolus at different temperature and humidity	To find out the effective temperature and humidity for botrytis blight development in gladiolus	Jessore
1990	Efficacy of different fungicides for controlling Botrytis blight of Gladiolus	To find out suitable fungicides for controlling botrytis blight of gladiolus	Jessore
1991	Standardization of spray schedule of two effective fungicides against Stemphylium blight diseases of lentil.	To find out effective fungicide(s) against stemphylium blight disease of lentil	Jessore
1992	Study on the effect of different chemical fungicides on Alternaria leaf spot of broccoli.	To study the efficacy of different fungicides on alternaria leaf spot of broccoli	Jessore
1993	Confined field trial of LBR Potato	To find out late blight resistant potato variety	Jessore
1994	Existing value chain assessment of Date palm in Bangladesh.	To analyze the existing value chain of date palm marketing	Jessore, Magura, Jhenaidah.
1995	Gher based agriculture: A socioeconomic study	• To analyze the socioeconomic characteristics of gher farmer • To assess the existing cropping pattern on the gher land	Khulna, Bagherhat, Satkhira
1996	Integrated nutrient management for sustaining soil fertility and yield of Wheat-Mungbean-T.aman cropping pattern	To find out judicious recommendation for Wheat-Mungbean-T.aman cropping pattern for sustainable yield	Jessore
1997	Integrated nutrient management for sustaining soil fertility and yield of Mustard-Mungbean-T.aman cropping pattern	To find out the efficiency of individual nutrient for maximizing the yield of the cropping pattern	Jessore

SI No.	Research Title	Objective(s)	Location
1998	Development of fertilizer requirement for four crops (T.aman-Potato-Boro-T. aus) based cropping pattern	To develop a fertilizer recommendation for four crop based cropping pattern	Jessore
1999	Effect of tillage methods and conventional compost formulated IPNS package on the productivity of Radish-Pea-Okra-T. aman rice cropping patterns and sustainability of soil health.	To know the effect of tillage methods and compost based IPNS package on the improvement of soil health	Jessore
2000	Effect of conservation tillage practices and IPNS based fertilizer management on the productivity of Potato-Jute-T. aman cropping pattern.	To evaluate effect of tillage methods and IPNS based fertilizer management on the productivity of the pattern	Jessore
2001	Development of fertilizer requirement for four crop (T. aman-Mustard-Boro-T. aus) based cropping pattern	<ul style="list-style-type: none"> To develop a fertilizer recommendation for four crop based cropping pattern To maximize the yield of four crop based cropping pattern through nutrient management 	Jessore
2002	Response of chickpea varieties to elite strains of <i>Rhizobium</i>	To study the response of <i>Rhizobium</i> inoculation with different varieties of chickpea	Jessore
2003	Effect of Different Management Packages for Quality Hybrid Rose Production	<ul style="list-style-type: none"> To find out the suitable management package for quality hybrid rose production To know the effect of organic fertilizer on the production of quality hybrid rose 	Jessore
RARS, BURIRHAT, RANGPUR			
2004	Collection, characterization and evaluation of eggplant germplasm for winter and summer	<ul style="list-style-type: none"> To evaluate the performance of newly collected eggplant germplasm in relation to yield contributing characters both in winter and summer season To select superior germplasm for developing a new variety 	Burirhat, Rangpur
2005	Performance trial of eggplant lines for winter and summer (Set I-Purple coloured and Set II Green coloured)	To develop high yielding purple and green coloured OP eggplant varieties tolerant to FSB, bacterial wilt for winter and summer season for hybridization programme	Burirhat, Rangpur
2006	Preliminary yield trial of eggplant lines for winter and summer (Set I-Purple coloured and Set II Green coloured)	To develop high yielding purple and green coloured OP eggplant varieties tolerant to FSB, bacterial wilt for winter and summer season for hybridization programme	Burirhat, Rangpur

SI No.	Research Title	Objective(s)	Location
2007	Advanced yield trial of eggplant lines for winter and summer (Set-I: Purple coloured and Set-II: Green coloured)	To develop high yielding OP eggplant varieties tolerant to FSB, bacterial wilt and heat tolerant	Burirhat, Rangpur
2008	Regional yield trial of eggplant lines for winter	To develop high yielding OP egg plant varieties tolerant to FSB, and bacterial wilt	Burirhat, Rangpur
2009	Regional yield trial of multiple disease tolerant tomato lines	<ul style="list-style-type: none"> To study the yield potential and performance of AVRDC tomato lines To develop OP variety and inbred lines for future breeding programme To assess the BW, TYCLV tolerant lines 	Burirhat, Rangpur
2010	Regional yield trial of Ty gene inserted tomato lines for yield and diseases resistance	<ul style="list-style-type: none"> To assess the yield potentiality of tomato lines at different AEZ. To develop OP tomato variety and inbred lines for tomato's hybrid variety development 	Burirhat, Rangpur
2011	Regional yield trial of Ty gene inserted tomato lines for yield and diseases resistance (cherry type)	<ul style="list-style-type: none"> To assess the yield potentiality of tomato lines at different AEZ To develop OP tomato variety and inbred lines for tomato's hybrid variety development 	Burirhat, Rangpur
2012	Regional yield trial of selected beta carotene rich tomato lines	<ul style="list-style-type: none"> To assess the yield potentiality of beta carotene rich tomato lines at different AEZ To develop high yielding, common diseases and pest resistant beta carotene rich tomato variety 	Burirhat, Rangpur
2013	Regional yield trial of selected semi-determinate tomato lines	<ul style="list-style-type: none"> Determining yield potentiality and pest and disease reactions of selected semi-determinate tomato lines at different AEZ To develop of high yielding and prolong time harvestable tomato variety 	Burirhat, Rangpur
2014	Regional yield trial of tomato lines for processing	Assessing the yield potentiality of processing type tomato lines at different AEZ and develop processing type tomato variety for Bangladesh	Burirhat, Rangpur
2015	Collection and evaluation of cucumber germplasm	To select high yielding genotype of cucumber	Burirhat, Rangpur
2016	Regional yield trial of selected spinach lines	To evaluate the performance of selected spinach line	RARS, Burirhat, Rangpur
2017	Regional yield trial of op carrot lines	To evaluate the performance of OP tropical carrot lines for good yield and quality in different location	Burirhat, Rangpur
2018	Regional yield trial of eggplant hybrids for winter	To develop high yielding eggplant hybrid varieties to FSB and bacterial wilt	Burirhat, Rangpur
2019	Regional yield trial of pointed gourd hybrids	<ul style="list-style-type: none"> To evaluate hybrid of pointed gourd To select the best one (s) hybrid of pointed gourd 	Burirhat, Rangpur

SI No.	Research Title	Objective(s)	Location
2020	Performance of bari released tomato varieties at northern region during late winter	To find out the suitable variety (ies) for late winter cultivation at northern region	RARS, Burirhat, Rangpur
2021	Collection and evaluation of jackfruit germplasm	To select superior lines for early, mid and late season for higher yield and quality	Burirhat, Rangpur
2022	Clonal selection of mango	To select the superior lines germplasm for Commercial cultivation of new mango variety	Burirhat, Rangpur
2023	Collection and evaluation of coloured mango germplasm	<ul style="list-style-type: none"> To identify and select the most desirable coloured mango lines To identify suitable genotypes for exploration in hybridization programme 	Burirhat, Rangpur
2024	Collection and evaluation of local elite mango germplasm	To identify promising mango lines with high yield	Burirhat, Rangpur
2025	In-situ evaluation of coloured mango germplasm	To select the superior coloured mango germplasm(s) for releasing as a variety	Burirhat, Rangpur
2026	In-situ evaluation of selected local elite mango germplasm	To select the superior coloured mango germplasm(s) for releasing as a variety for commercial cultivation	Burirhat, Rangpur
2027	Collection, evaluation and maintenance of local and exotic litchi germplasm	To select superior genotype for release as variety	Burirhat, Rangpur
2028	Collection and evaluation of plantain germplasm	To select superior lines for commercial cultivation of plantain	Burirhat, Rangpur
2029	Collection and evaluation of banana germplasm	To select superior lines for commercial cultivation of banana	Burirhat, Rangpur
2030	Clonal selection of banana	<ul style="list-style-type: none"> To select the superior strain(s) for Commercial cultivation To conserve germplasm 	Burirhat, Rangpur
2031	Collection and evaluation of local pummelo germplasm	To select superior pummelo lines for releasing as a variety	Burirhat, Rangpur
2032	Evaluation of longan germplasm	To select suitable variety of longan	Burirhat, Rangpur
2033	Collection and evaluation of bael, wood apple, pomogranate, custard apple, bullock's heart and burmese grape germplasm	To select superior lines and conserve fruit genetic resources	Burirhat, Rangpur
2034	Collection and evaluation of bel germplasm	To select superior lines and to conserve fruit genetic resources	Burirhat, Rangpur
2035	Collection and evaluation of wood apple germplasm	To select superior lines for releasing a variety and conserve germplasm	Burirhat, Rangpur
2036	Collection and evaluation of exotic fruit germplasm	To select superior lines and to conserve fruit genetic resources	Burirhat, Rangpur
2037	Bio-chemical analysis of mango after bagging	To know the bio-chemical composition of each mango variety after bagging	Burirhat, Rangpur
2038	Enrichment and maintenance of indigenous fruit germplasm	To supply true-to-type quality planting materials to the partner organization as well as to the nursery associations for the establishment of FMTOs	Burirhat, Rangpur

SI No.	Research Title	Objective(s)	Location
2039	Breeder's propagule production of released fruit varieties	To supply true-to-type quality planting materials to the farmers and other organizations	Burirhat, Rangpur
2040	Development of management approach against red spider mite on brinjal	Finding out the effective management package for controlling red spider mite of brinjal	Burirhat, Rangpur
2041	Identification and documentation of whitefly species and their damage severity in vegetable crops	To identify and document the whitefly species and their damage severity of vegetable crops in Northern region of Bangladesh	Rangpur and Thakurgaon
2042	Up scaling and field validation of bio-rational based integrated management packages against fruit borer pests of late winter tomato	<ul style="list-style-type: none"> To validate and up scale of IPM package for the control of fruit borer of late winter tomato To produce toxic chemical pesticide free tomato 	Tunirhat, Panchagarh
2043	Development of management approach against litchi mite, <i>Eriophyes litchi</i>	To develop a suitable management technique of litchi mite	Burirhat, Rangpur and farmers field, Rangpur
2044	Development of management approach against litchi fruit borer	To develop a suitable management technique of litchi fruit borer	Burirhat, Rangpur
2045	Bio-rational based management of mango leaf hopper, <i>Idioscopus</i> spp.	To identify a suitable bio-rational based management approach, against mango hopper	Burirhat, Rangpur
2046	Assessment of the pest status and seasonal fluctuation of major insect pests of some selected vegetables and fruits	<ul style="list-style-type: none"> To record the severity of damage of insect pests of vegetables and fruits at different locations of the country To document the seasonal fluctuation of the major insect pests 	Burirhat, Rangpur
2047	Growth and yield of hybrid maize in Kharif-1 season as influenced by fertilizer management	<ul style="list-style-type: none"> To find out economic fertilizer dose for hybrid maize in Kharif-1 season To increase production and economic return 	Gazipur, Burirhat (Rangpur) and Hathazari
2048	Growth and yield of BARI Khaibhutta-1 as influenced by spacing and fertilizer management	<ul style="list-style-type: none"> To find out suitable spacing and economic fertilizer dose for BARI kaibhutta-1 To increase production and economic return 	Gazipur, Burirhat (Rangpur) and Barisal
2049	Effect of twig removing on growth and yield of garden pea	To find out the optimum time and length of twig for clipping for maximum pod and vegetable yield	Gazipur, Jamalpur, Jessore and Burirhat (Rangpur)
2050	Performance of BARI Hybrid maize-9 as affected by sowing date after potato harvest	To find out appropriate sowing date of BARI Hybrid Maize-9 followed by potato harvest	Gazipur and Rangpur

SI No.	Research Title	Objective(s)	Location
2051	Phenology, dry matter accumulation and yield of summer onion in relation to planting time	<ul style="list-style-type: none"> To study the plant phenology and dry matter partitioning of summer onion To find out the optimum planting time of summer onion 	Gazipur and Burirhat
2052	Observation trial on potato – potato / maize / mungbean – T. Amanrice cropping pattern under AEZ 3	<ul style="list-style-type: none"> To find out the suitability of the cropping pattern in the region To find out the productivity to increase the production per unit areaper unit time 	Burirhat, Rangpur
2053	Development of five crop-based cropping pattern studies for increasing cropping intensity and productivity	<ul style="list-style-type: none"> Increase cropping intensity and productivity through crop intensification in rice based cropping system Sustain food security, poverty reduction, resource management and livelihood improvement of ever increasing populations Increase farmer's income, access to food and nutrition, employment opportunity and woman's participation in agriculture 	Gazipur, Rangpur, Jamalpur, Chittagong, Barisal and Pabna.
2054	Effect of delayed sowing and management practices on growth and yield of Garden pea	To test the production efficiency of garden pea with desired quality at delayed sowing	Gazipur, Madaripur and Burirhat
2055	Performance of different soybean varieties in charland areas under rainfed condition	To find out suitable variety of Soybean for charland area under rainfed condition	Jamalpur and Rangpur char
2056	Growth and yield of sweet corn as influenced by spacing and fertilizer management	<ul style="list-style-type: none"> To find out suitable spacing and fertilizer dose for BARI Sweet corn-1 To increase production and economic return 	Gazipur, Burirhat (Rangpur) and Jamalpur
2057	Evaluation of promising maize hybrids at different agro-ecological regions of Bangladesh	To test the performance of locally developed single cross hybrids at different agro-ecological regions in Bangladesh and select widely adapted hybrids	Burirhat, Rangpur
2058	Comparative yield trial of imported & local maize hybrids under optimum condition at different agro-ecological regions of Bangladesh	To observe the performance of imported & local hybrids and select better one(s)	Burirhat, Rangpur
2059	Demonstration of selected HTMA hybrids at different agro-ecological regions	To develop high-yielding and heat tolerant maize hybrids	Burirhat, Rangpur
2060	Seed production of the parental lines of BARI maize hybrids (7 Sets)	<ul style="list-style-type: none"> To increase seeds of the parent lines of different BARI maize hybrids To distribute the increased parental seeds to BADC and other private agencies 	Burirhat, Rangpur
2061	Seed production of the parental lines of the selected HTMA and low water required hybrids (2 Sets)	<ul style="list-style-type: none"> To increase seeds of the parent lines of different selected maize hybrids & To distribute the seeds to BADC, private seed companies and NGOs 	Burirhat, Rangpur

SI No.	Research Title	Objective(s)	Location
2062	Breeder seed production of barley	<ul style="list-style-type: none"> To maintain and increase seed of the released variety Breeder seed will be produced to supply seed producing agency like BADC, DAE or NGOS and Distribution of quality seeds directly to the farmer 	Burirhat, Rangpur
2063	Breeder seed production of millets	<ul style="list-style-type: none"> To maintain and seed increase of the released variety Breeder's seed will be produced to supply seed producing agency like BADC, DAE or NGOS Distribution of quality seeds directly to the farmer 	Burirhat, Rangpur
2064	Large plot yield trial of sorghum	To select better performing sorghum lines for releasing as a variety	Burirhat, Rangpur
2065	Preliminary yield trial of Groundnut (Set-I)	<ul style="list-style-type: none"> To select high yielding and early maturing variety To select disease resistance lines with desirable agronomic traits 	Burirhat, Rangpur
2066	Preliminary yield trial of Groundnut (Set-II)	<ul style="list-style-type: none"> To select high yielding and early maturing variety To select disease resistance lines with desirable agronomic traits 	Burirhat, Rangpur
2067	Regional yield trial of Groundnut	Selected entries of Groundnut from preliminary yield trial & ICRISAT trial will be evaluated	Burirhat, Rangpur
2068	Preliminary yield trial of Soybean	To select the high yielding genotypes	Burirhat, Rangpur
2069	Regional yield trial of Soybean	To select the high yielding genotypes	Burirhat, Rangpur
2070	Management option of <i>Sclerotinia</i> rot of marigold	To find out the effective management practices of <i>Sclerotinia</i> rot diseases of Marigold	Gazipur and Burirhat, Rangpur
2071	Effect of planting time on the late blight disease of potato in the resistant varieties/ lines	To observe the effect of planting time on the late blight disease of potato in the resistant varieties/ lines	Burirhat, Rangpur and Bogra
2072	Management of late blight utilizing host plant resistance and fungicide application	To find out the effective frequency of fungicide application for resistant varieties	Burirhat, Rangpur and Bogra
2073	Efficacy of fungicides to control major diseases of garden pea	To find out appropriate fungicides for controlling major diseases of garden pea	Burirhat, Rangpur
2074	Survey of <i>Sclerotinia</i> disease of different crops in Rangpur and Dinajpur district	To assess the status of <i>Sclerotinia</i> disease in this region	Rangpur and Dinajpur

SI No.	Research Title	Objective(s)	Location
2075	Regional yield trial for late blight tolerant exotic potato variety	Selection of suitable late blight tolerant varieties for release	Bogra, Jamalpur and Burirhat, Rangpur
2076	Participatory variety selection for late blight tolerant exotic potato variety	Selection of suitable varieties in collaboration with farmers and other organization	Bogra, Jamalpur and Burirhat, Rangpur
2077	Performance of some indigenous potato varieties under organic practice	To identify the superior indigenous potato varieties for organic cultivation	Burirhat, Rangpur
2078	Promotion and dissemination of newly released late blight resistant potato variety	<ul style="list-style-type: none"> To popularize the newly released improved potato varieties To collect the feedback of the newly released varieties To increase the production as well as income of the growers. 	Dinajpur, Rangpur, Bogra, Jamalpur, Rajshahi and Jessore
2079	Effect of Different Economic Spray Schedule of Mancozeb in Controlling Late Blight of Potato on Resistant and Susceptible Varieties	To determine the spray schedule of Mancozeb in controlling late blight of susceptible and resistant varieties	Burirhat, Rangpur and Bogra
2080	Screening of Potato Varieties and Germplasm against Late Blight Disease	<ul style="list-style-type: none"> To explore the resistant varieties/TPS/germplasm To reduce the yield due to disease 	Rangpur (Burirhat), Jamalpur and Bogra
2081	Efficacy of New Fungicides in Controlling Late Blight of Potato	<ul style="list-style-type: none"> To find out the effective fungicides in controlling the disease To reduce the yield loss 	Bogra, Burirhat and Jamalpur
RARS, RAHMATPUR			
2082	Effect of seedling age on grain yield of transplanting hybrid maize under different tillage conditions in southern region of Bangladesh	To find out the proper seedling age for transplanting hybrid maize under different tillage conditions	Rahmatpur, Barisal
2083	Performance of short duration pulses as fodder in between T.aman and Boro rice	To find out the most suitable fodder pulse crop/s in terms of increased dry matter production and nutrition	Rahmatpur, Barisal
2084	Effect of seed priming on the growth and yield of BARI lentil varieties	To study the effects of micronutrients on the growth and yield of lentil varieties	Rahmatpur, Barisal
2085	Intercropping of potato with maize under different planting system in southern region of Bangladesh	To develop suitable planting technique for potato with maize intercropping system	Rahmatpur, Barisal

SI No.	Research Title	Objective(s)	Location
2086	Intercropping of mungbean with hybrid maize under different planting systems in southern region of Bangladesh	To find out suitable planting system for intercropping of mungbean with hybrid maize	Rahmatpur, Barisal
2087	Agro-economic performance of different vegetable crops on pond based floating bed in Southern of Bangladesh	To find out the suitable vegetables crop(s) for cultivation on pond based floating bed in southern region of Bangladesh	Rahmatpur, Barisal
2088	Performance of Different Spices Crops on Floating Bed under Submerged Ecosystem in Southern Region of Bangladesh	To find out the suitable spices crop(s) for cultivation on floating bed under submerged ecosystem in southern region of Bangladesh	Rahmatpur, Barisal
2089	Performance of different potato varieties on water hyacinth made floating bed under submerged ecosystem in southern region of Bangladesh	To observe the performance of potato under water hyacinth made floating bed condition in southern region.	Rahmatpur, Barisal
2090	Performance of vegetables under floating agriculture based different production systems in southern region of Bangladesh	To develop alternate production system(s) for the submerged/ flooded/ waterlogged ecosystem for reducing the uses of water hyacinth	Rahmatpur, Barisal
2091	Performance of vegetables under floating agriculture based different production systems in southern region of Bangladesh	To maximize the agricultural production and net return from pond based vegetables-cum-fish farming under floating agriculture	Rahmatpur, Barisal
2092	Performance of different vegetables and spices seedlings on floating bed in southern region of Bangladesh	To find out the suitable vegetables/spices crop(s) for raising seedlings on water hyacinth made floating bed	Rahmatpur, Barisal
2093	Evaluation of golden apple germplasm	To select superior golden apple lines	Rahmatpur
2094	Evaluation of cowa germplasm	To select superior cowa lines	Rahmatpur
2095	Evaluation of bael, germplasm	To select superior lines for releasing a variety	Rahmatpur
2096	Evaluation pomegranate germplasm	To select superior lines for releasing a variety	Rahmatpur
2097	Evaluation of guava germplasm	To select superior lines for releasing a variety	Rahmatpur
2098	performance of pineapple cultivars in different regions of Bangladesh	To select suitable varieties for commercial cultivation	Rahmatpur

SI No.	Research Title	Objective(s)	Location
2099	Evaluation of coconut germplasm	To select the superior lines and to identify suitable germplasm for higher yield and quality	Rahmatpur
2100	Effect of time and method of grafting on golden apple	To develop improved propagation techniques and to maximize the success of vegetative propagation	Rahmatpur
2101	Integrated Management of Betel vine diseases	To find out an effective management package for controlling betel vine diseases	Rahmatpur
2102	Application of biological soil disinfestation (BSD) for controlling wilt of tomato	To control wilt diseases of tomato	Rahmatpur
2103	Management of gummy stem blight (black rot) on bottle gourd	To find out an effective and suitable control measure of the disease	Rahmatpur
2104	Effect of different cultural and chemical options for controlling foot rot of lentil	To find out the effective option to manage the footrot disease	Rahmatpur
2105	Study of Cultural Management of Virus Diseases of Watermelon through Intercropping with Different crops	To demonstrate its effectiveness in the field	Rahmatpur
2106	Integrated Management of stem rot (<i>Macrophomina phaseolina</i>) in Sesame	To find out effective management package against sesame diseases	Rahmatpur
2107	Integrated management of cercospora leaf spot of Indian spinach in the southern region	To determine the disease severity of the disease and to apply integrated management approach against the disease	Rahmatpur
2108	Development of appropriate management approach against insect pest complex of coconut	To find out suitable management approach against insect pest complex of coconut	Rahmatpur
2109	Improvement of cropping pattern Wheat-Jute – T.aman	To improve the existing cropping pattern by including new crop varieties	Gournadi, Barisal
2110	Development of alternate cropping patterns against Mungbean- Fallow- T.aman	Existing cropping pattern replacement and switching to more profitable one	Gournadi, Barisal
2111	Performance of different summer vegetables seedlings on floating bed in submerged ecosystem of southern region of Bangladesh	To observe the seedlings performance on water hyacinth made floating bed	Banaripara, Barisal
2112	Performance of short duration pulses as fodder in between T.aman and Boro rice	To find out the most suitable fodder pulse crop/s in terms of increased dry matter production and nutrition	Gournadi, Barisal

SI No.	Research Title	Objective(s)	Location
2113	Adaptive trial with BARI released Barley varieties	To identify location specific better barley variety/ varieties	Banaripara, Barisal
2114	Determinants and its impact of labour migration from agricultural to non-agricultural sectors in some selected coastal areas of Bangladesh	<ul style="list-style-type: none"> To identify the determinants of labour migration from agricultural to non-agricultural sectors To determine the social, economic and agricultural impacts of labour migration To make some policy recommendation on the basis of the study 	Barisal, Patuakhai and Jhalakati

PLANNING & EVALUATION DIVISION

2115	Tuber Crops Development Project (BARI Part) (2nd Revised) (July 2010 to June 2016)		Gazipur, Munshiganj, Jamalpur, Bogra, Panchagarh, Comilla, Chittagong, Jessore, Barisal
2116	Enhancing Quality Seed Supply(BARI Part) (2nd Revised) (January 2011 to June 2016)		Gazipur, Jamalpur, Munshiganj, Rajshahi, Pubna, Bogra, Rangpur, Thakurgaon, Panchagarh, Dinajpur, Chittagong, Comilla Barisal Jessore
2117	Integrated Quality Horticulture Development Project (Phase II) (BARI Part) (July 2010-June 2015)		Gazipur, Jamalpur, Shibpur, Hathazari, Pahartali, Khagrachari, Ramgarh, Raikhali, Comilla, Ishurdi, Chapai Nawabgonj, Binodpur, Burirhat, Thakurgaon, Debigonj, Patuakhali, Rahamatpur, Akbarpur, Jaintiapur, Jessore
2118	Farm Machinery Technology Development and Dissemination (BARI Part) (1st Revised) (July 2010 to June 2015)		Gazipur, Manikgonj, Narshindi, Rajbari, Barisal, Jhalokathi, Jhinaidah, Magura, Pabna, Sirajgonj
2119	Continuation and expansion of Pesticide Research in Pesticide Analytical Laboratory at BARI (May 2011 to June 2016)		Gazipur
2120	Mujibnagar Integrated Agricultural Development Project (1st Revised) (July 2011 to June 2016)		Meherpur, Chuadanga, Jhenaidah & Kushtia
2121	Integrated Agricultural Productivity Project (BARI part) (1st Revised) (July 2011 to June 2016)		Barisal, Barguna, Jhalakathi, Patuakhali, Rangpur, Nilfamari, Kurigramand Lalmonirhat
2122	Development and expansion of research and research infrastructure of BARI (July 2012- June 2016)		Gazipur, Jamalpur, Faridpur, Munshigonj, Kishoregonj, Narshingdi, Pabna, Thakurgaon, Panchagarh, Dinajpur, Bogra, Rajshahi, Chapai Nawabgonj, Chittagong, Comilla, Khagrachari, Jessore, Khulna, Magura, Satkhira, Moulvibazar, Sylhet, Barisal, Patuakhali, Rangpur, Lalmonirhat.

SI No.	Research Title	Objective(s)	Location
2123	Pirojpur-Gopalganj-Bagherhat Integrated Agricultural Development Project (BARI part) (July 2012- June 2017)		Pirojpur, Gopalganj, Bagerhat.
2124	Citrus Development (BARI Part) (July 2013- June 2018)		Sylhet, Moulvibazar, Chattagong, Khagrachari, Rangamati, Panchagor, Gazipur, Narsinghdi, Jamalpur, Comilla.
2125	Rain water harvesting in Hilly creeks/ charas to Restore sustainable Agriculture –Based Livelihoods in Hilly areas of Chittagong Hill Tracts (January 2015 - June 2016)		Khagrachari, Rangamati & Bandarban

TRAINING AND COMMUNICATION WING

2126	Training needs assessment of farmers of Bangladesh	<ul style="list-style-type: none"> To assess the training needs of farmers of Bangladesh To suggest guidelines for improved farmers training modules 	Gazipur
2127	Training needs for Scientists and Officers	To develop human resources training and execute training courses for scientists and officers	Gazipur
2128	Training needs for Staffs / SA/SSA	To develop human resources training and execute training courses for staffs	Gazipur
2129	BTV concerned Scientists/ Staff/SA/ SSA /GO/NGO/ Farmers	<ul style="list-style-type: none"> To transfer BARI developed technologies directly to the farmers through BTV To make research more demand driven and scientists and farmers participatory 	Gazipur
2130	Production Technology for GO and NGO Personnel Demand driven training programmes for NGO & Private entrepreneurs	Demand driven training programmes for NGO & Private entrepreneurs (If requested)	Gazipur

BANGLADESH RICE RESEARCH INSTITUTE

BANGLADESH RICE RESEARCH INSTITUTE

PLANT BREEDING DIVISION

SL No.	Research Title	Objective(s)	Location
1	Hybridization for shallow-flood tolerant rice	Introgression of submergence, stagnant flood and lodging tolerance genes into high yielding genotypes	Gazipur (Central Station)
2	Confirmation of F ₁ for shallow-flood tolerant rice	Confirmation of F ₁ s as true crosses and selection of promising ones	Gazipur
3	Growing of F ₂ population for shallow-flood tolerant rice	Selection of progenies having earliness, submergence, shallow flood and lodging tolerance and acceptable grain types	Gazipur
4	Growing and screening of pedigree nursery (F ₄ , F ₆ -F ₈ and BC ₁ F ₇ generation)	To select high yield potential progenies with good grain type, short growth duration and disease and insect pest resistance under shallow flooded field condition	Gazipur
5	Preliminary Yield Trial-1 (PYT-1), Shallow Flooded Rice	Initial evaluation of promising breeding lines for their phenotypic acceptability, adaptation under shallow flood and grain yield potentials.	Shibbari (DWT) and East Byed, Gazipur
6	Preliminary Yield Trial-2 (PYT-2), Shallow Flooded Rice	Initial evaluation of promising breeding lines for their phenotypic acceptability, adaptation under shallow flood and grain yield potentials	Shibbari and East Byed, Gazipur
7	Secondary yield trial (SYT), Shallow Flooded Rice	Secondary evaluation of promising breeding lines for their phenotypic acceptability, adaptation under shallow flood and grain yield potentials	Shibbari and East Byed, Gazipur
8	Advanced Yield Trial (AYT), Shallow Flooded Rice	Advanced evaluation of promising breeding lines for their phenotypic acceptability, adaptation under shallow flood and grain yield potentials	Shibbari and East Byed, Gazipur
9	Seed increase, pure-line selection and searching snorkel genes, Shallow Flooded Rice	Increasing the seed, isolation of pure-lines, screening for <i>SK1</i> genes among the landraces of Shallow Flood tolerant Rice	Gazipur
10	Hybridization for rainfed lowland rice	Introgression of genes from diverged genetic background into rice varieties/lines for the improvement of standard T. Aman varieties	Gazipur
11	Confirmation of F ₁ for rainfed lowland rice	To confirm the crosses as true hybrid	Gazipur
12	Growing of F ₂ population for rainfed lowland rice	Selection of progenies with emphasis on earliness, plant type, grain type and high yield potential compared to standard varieties	Gazipur
13	Pedigree nursery (F ₃ – F ₆ generation) for rainfed lowland rice	Selection of progenies with improved plant type, earliness, acceptable grain quality and high yield potential compared to standard varieties	Gazipur

SL No.	Research Title	Objective(s)	Location
14	Observational Trial (OT) for rainfed lowland rice	Selection of homogeneous breeding lines with acceptable grain quality having high yield with good plant type	Gazipur
15	Preliminary yield trial for rainfed lowland rice	Initial yield evaluation of advanced lines compared to standard checks.	Gazipur
16	Secondary yield trial for rainfed lowland rice	Secondary yield evaluation of advanced lines compared to standard checks	Gazipur
17	Advanced yield trial (AYT) for rainfed lowland rice	Advanced yield evaluation of promising lines compared to standard checks	Gazipur, Rangpur and Rajshahi
18	Regional yield trial (RYT) for rainfed lowland rice	To evaluate specific and general adaptability of the advance breeding lines as compared with standard checks in on-station condition	Gazipur, Comilla, Sathkhira, Kushtia, Rangpur, Rajshahi, Barisal and Sonagazi
19	Advanced Line Adaptive Research Trial for rainfed lowland rice	To evaluate specific and general adaptability of the advance breeding lines as compared with standard checks in on-farm condition	Ten locations
20	Proposed Variety Trial (PVT) for rainfed lowland rice	On-farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Rajshahi, Rangpur, Kustia, Barisal, Feni, Comilla, Habigonj, Satkhira, Gazipur, Mymensingh
21	Proposed Variety Trial (PVT) for rainfed lowland rice (Short Duration)	On-farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Rajshahi, Rangpur, Kustia, Barisal, Feni, Comilla, Habigonj, Satkhira, Gazipur, Mymensingh
22	Maintenance of varieties / genotypes for demonstration and nuclear stock	To demonstrate and maintain seed purity of T. Aman rice varieties and advance lines	Gazipur
23	Hybridization for salt-tolerant variety	Introgression of salinity tolerant trait(s) in high yielding varieties suitable for coastal region in RLR ecosystem	Gazipur
24	F ₁ confirmation for salt-tolerant variety	Confirmation of F ₁ s as true crosses	Gazipur
25	Growing of F ₂ population for salt-tolerant variety	To select suitable progenies from F ₂ population	Satkhira

SL No.	Research Title	Objective(s)	Location
26	Pedigree nursery for salt tolerance for salt-tolerant variety	Selection of progenies from segregating population for salinity tolerance	Satkhira
27	Observational Trial for salt-tolerant variety	Identification of advance lines suitable for saline areas	Gazipur and Satkhira
28	Preliminary Yield Trial for salt-tolerant variety	Initial yield evaluation of advance lines in replicated trial in saline field condition	Gazipur and Satkhira
29	Secondary Yield Trial (SYT) for salt-tolerant variety	Confirmation of yield potential of selected materials in replicated trial in saline field condition	BRRI, and Satkhira
30	Proposed Variety Trial (PVT) for salt-tolerant variety	On-farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Bagherhat, Satkhira, Khulna, Patuakhali, Barguna, Noakhali, Cox's Bazar
31	Participatory Varietal Selection (PVS) for salt-tolerant variety	Selection of suitable genotypes by participating farmers suitable for saline prone areas	Satkhira (3-4)
32	Pyramiding of <i>Saltol</i> and <i>Sub1</i> QTLs into BRRI dhan49	Introgression of <i>Saltol</i> and <i>Sub1</i> QTLs into the genetic background of BRRI dhan49 through marker assisted selection	Gazipur
33	Whole life screening of rice genotypes for salinity tolerance	Identify salt tolerant genotypes for seedling and reproductive stages	Plant Physiology Division, Gazipur
34	Screening rice landraces for salinity tolerance at seedling stage	Identify salt tolerant genotypes/ new donor at seedling stage	Plant Physiology Division, Gazipur
35	INGER (IRSSTN) trial for salt-tolerant variety	Evaluation of 35-40 genotypes including 2 (BRRI dhan53 and BRRI dhan54) Std. checks	Gazipur and Satkhira
36	Participatory varietal selection (PVS) for salt-tolerant variety	Selection of suitable genotypes by participating farmers suitable for saline prone areas	Barguna and Patuakhali
37	Validation Trial for salt-tolerant variety	On-farm evaluation of advance breeding lines and varieties compared to standard checks for testing their specific and general adaptability	Barguna and Patuakhali
38	Hybridization for premium quality variety	Introgression of extra long grain and small grain with or without aroma into high yielding rice genetic background	Gazipur
39	Confirmation of F ₁ for premium quality variety	To confirm the crosses as true hybrid	Gazipur
40	Growing of F ₂ population for premium quality variety	To select progenies with emphasis on earliness, plant type, grain type and high yield potential compared to standard varieties.	Gazipur
41	Pedigree nursery (F ₃ – F ₇ generation) for premium quality variety	Selection of progenies with improved plant type, earliness, premium quality grain and high yield potential compared to standard varieties	Gazipur

SL No.	Research Title	Objective(s)	Location
42	Observational Trial (OT) for premium quality variety	Selection of homogeneous breeding lines with fine grain properties having high yield with good plant type	Gazipur
43	Preliminary yield trial (PYT) for premium quality variety	Initial yield evaluation of advanced lines compared to standard checks	Gazipur
44	Secondary yield trial (SYT) for premium quality variety	Confirmation of yield potentiality of advanced lines compared to standard checks	Gazipur
45	Regional yield trial (RYT) for premium quality variety	To evaluate specific and general adaptability of the advance breeding lines as compared with standard checks in on-station condition	Gazipur, Comilla, Sathkhira, Kustia, Rangpur, Rajshahi, Barisal and Sonagazi
46	Proposed Variety Trial (PVT) – Premium Quality Rice	On-farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Rajshahi, Rangpur, Kustia, Barisal, Feni, Comilla, Habiganj, Satkhira, Mymensingh and Gazipur
47	Hybridization for micro nutrient enriched variety	Development of new genotypes with high iron and zinc content along with resistance to major insect pests and diseases, and acceptable grain quality	Gazipur
48	Confirmation of F ₁ for micro nutrient enriched variety	To confirm the cross as true F ₁ s and use of the selected F ₁ s to produce F ₂ seeds and in different types of crosses	Gazipur
49	F ₂ population for micro nutrient enriched variety	To select superior progenies with emphasis on sturdy and strong plant type, more tillering ability with less or no unproductive tiller and lodging resistance	Gazipur
50	Pedigree nursery for micro nutrient enriched variety	To select progenies with emphasis on modern plant type, large panicle, more grains in panicle, lodging resistance and acceptable grain quality	Gazipur
51	Observational Trial (OT) for micro nutrient enriched variety	To select genetically fixed lines with desirable agronomic characters with less or no unproductive tiller, intermediate plant height, short growth duration, acceptable grain quality and high yield potential	Gazipur
52	Preliminary Yield Trial for micro nutrient enriched variety	Evaluation of initial yield potential in replicated plots	Gazipur
53	Secondary Yield Trial for micro nutrient enriched variety	Confirmation of yield potential in replicated plots	Gazipur

SL No.	Research Title	Objective(s)	Location
54	Regional Yield Trial (RYT) for micro nutrient enriched variety	Evaluation of specific and general adaptability under on-station condition	Rajshahi, Rangpur, Bhanga, Habiganj, Barisal, Comilla, Satkhira, Kustia, Sonagazi and Gazipur
55	Advanced lines Adaptive Research Trial for micro nutrient enriched variety	Evaluation of specific and general adaptability under on farm condition	10 locations selected by ARD Division
56	Evaluation of submergence tolerance of high zinc IR lines	Isolation of submergence tolerant high zinc lines	Gazipur
57	Hybridization for insect resistant variety	To transfer insect resistance gene into modern genetic background	Gazipur
58	Confirmation of F ₁ for insect resistant variety	Confirmation of crosses with introgression of resistant genes into modern genetic background	Gazipur
59	Growing of F ₂ population for insect resistant variety	Selection of progenies resistant to BPH and GM with improves plant type	Gazipur
60	Pedigree Nursery (F ₃ –F ₆ generations) for insect resistant variety	Selection of progenies resistant to GM and BPH with improve plant type.	Gazipur
61	Observational Trial for insect resistant variety	Evaluation of isolated homozygous lines for desirable agronomic characters	Gazipur
62	Advanced yield trial (AYT) for insect resistant variety	Yield assessment of advanced genotypes selected from OT, PYT and SYT in a replicated trial	Gazipur
63	Hybridization for disease resistant variety	Introgression of resistant gene/s against Bacterial blight (BB) and Blast	Gazipur
64	Confirmation of F ₁ for disease resistant variety	Confirmation of crosses as true F ₁ with introgression of genes for tolerance to Bacterial Blight and Blast	Gazipur
65	F ₂ population	To select progenies with emphasis on BB, Blast, lodging tolerance and good plant type	Gazipur
66	Pedigree nursery (F ₃ – F ₅ generation) for disease resistant variety	To select progenies from the segregating populations with emphasis on disease resistance for BB, RTV and Blast along with good plant type, earliness, grain type, grain color, tolerance to lodging and good phenotypic appearance over the standard varieties	Gazipur
67	Observational trial for disease resistant variety	To isolate the homozygous lines of BB and RTV	Gazipur
68	Preliminary yield trial (PYT) for disease resistant variety	Initial yield evaluation and selection of desirable lines compared to standard checks	Gazipur

SL No.	Research Title	Objective(s)	Location
69	Secondary yield trial (SYT) for disease resistant variety	Secondary yield evaluation and selection of desirable lines compared to standard checks	Gazipur
70	Regional yield trial (RYT) for disease resistant variety	Evaluation of the breeding lines for yield potential and adaptability test under different agro-climatic conditions of Bangladesh	Gazipur, Comilla, Rangpur, Rajshahi, Kushtia, Sonagazi, Barisal & Satkhira
71	Advanced Line Adaptive Research Trial for disease resistant variety	Evaluation of the selected materials at different regions in the country to determine the specific and general adaptability	10 locations selected by ARD
72	Hybridization for water stagnation variety	Introgression of submergence and medium stagnant water tolerant genes into modern genetic background with short/long growth duration, weakly/strongly photoperiod sensitivity, grain quality etc.	Gazipur
73	Confirmation of F ₁ for water stagnation variety	Confirmation of F ₁ s as true crosses and selection of promising ones	Gazipur
74	Growing of F ₂ population for water stagnation variety	Selection of progenies having earliness, Submergence, stagnant flood and lodging tolerance and medium bold to medium SNender grain types	Rangpur
75	Growing & Screening of Pedigree Population for water stagnation variety	Selection of submergence and medium stagnant water tolerant progenies with improved plant type under controlled stress condition	Rangpur
76	Marker Assisted Selection for introgressing <i>SUB1</i> QTL into BR22 and BRRI dhan39	Introgression of flash flooding tolerant QTL into two RLR varieties developed by BRRI utilizing Marker-Assisted Selection procedures	Gazipur
77	Observational Yield Trial (Rainfed), Submergence Tolerance	Selection of materials with better phenotypic acceptance, homogeneity in the population, higher yield potentials and shorter growth duration than the standard checks to initiate preliminary yield trial	Gazipur
78	Observational Yield Trial, Anaerobic germination (AG) tolerance	Selection of materials with better phenotypic acceptance, homogeneity in the population, higher yield potentials and shorter growth duration than the standard checks to initiate preliminary yield trial	Gazipur
79	Observational Yield Trial #3, Submergence and Water stagnation Tolerance (SUB + SFT)	Selection of materials with better phenotypic acceptance, homogeneity in the population, higher yield potentials and shorter growth duration than the standard checks to initiate preliminary yield trial	Gazipur

SL No.	Research Title	Objective(s)	Location
80	Preliminary Yield Trial 1. Submergence and Water stagnation Tolerance	Preliminary evaluation of promising breeding lines in replicated trial under both controlled stress and rainfed conditions	Gazipur
81	Preliminary Yield Trial 2. Anaerobic germination tolerance	Preliminary evaluation of promising breeding lines in replicated trial under both controlled stress and rainfed conditions	Gazipur
82	Secondary Yield Trial-1 (SUB+SFT) for water stagnation variety	Secondary evaluation of promising breeding lines in replicated trial under both controlled stress and rainfed conditions	Gazipur
83	Secondary Yield Trial-2 (SUB)	Secondary evaluation of promising breeding lines in replicated trial under both controlled stress and rainfed conditions.	Gazipur
84	Secondary Yield Trial-3 (SFT)	Secondary evaluation of promising breeding lines in replicated trial under both controlled stress and rainfed conditions	Gazipur
85	Screening & evaluation newly developed Pyramided (Xa 21 & Sub1) Lines	Evaluation of newly developed pyramided lines against bacterial blight resistance	Gazipur
86	Participatory Variety Selection (PVS), Submergence-Late	Evaluation of genotypes in the real submergence and/or medium stagnation prone environments of the farmers' field with the participation of farmers under the management practices of researchers	Gazipur & Rangpur
87	Validation Trial (Submergence) - Early	Validation of short duration submergence tolerant genotypes in larger plots of real submergence prone environments	Gazipur & Rangpur
88	Advanced Lines Adaptive Research Trial (ALART) (Submergence)	Evaluation of newly introgressed submergence tolerant genotypes in the real submergence prone farmer's fields for the sake of varietal release	Gazipur: Rangpur, Nilphamari, Lalmonirhat, Kurigram, Gaibandha, Jamalpur, Habiganj, Golapganj
89	Screening of submergence /Stagnant flood tolerant landraces for <i>SUB1</i> QTL	Investigation of the selected landraces for the presence of <i>SUB1</i> QTL	Gazipur
90	Screening of submergence / Stagnant flood tolerant landraces	To evaluate submergence/stagnant flood tolerance ability of selected landraces	Gazipur
91	Hybridization for drought tolerant rice variety	Introgression of drought tolerance gene into high yielding rice genetic background	Gazipur
92	Confirmation of F ₁ for drought tolerant rice variety	To confirm the crosses as true hybrid	Gazipur

SL No.	Research Title	Objective(s)	Location
93	Growing of F ₂ population for drought tolerant rice variety	Selection of drought tolerant progenies with emphasis on earliness, plant type, grain type and high yield potential compared to standard varieties	Gazipur
94	Pedigree nursery (F ₃ , F ₆ generation) for drought tolerant rice variety	Selection of drought tolerant progenies with improved plant type, earliness, acceptable grain quality and high yield potential compared to standard varieties	Gazipur
95	Participatory Varietal Selection (PVS) for drought tolerant rice variety	Selection of varieties in drought prone areas of Rangpur region through farmers' judgments	Rangpur, Kurigram, Nilphamari, Lalmonirhat
96	Confirmation of F ₁ for less water required rice	Confirmation of F ₁ s as true crosses and selection of promising ones	Gazipur
97	Growing of F ₄ population for less water required rice	Selection of progenies having high grain yield potentials under low water condition	Gazipur
98	Observational Yield Trial (OT) for less water required rice	To select materials with higher yield potentials and shorter growth duration than the standard checks to initiate preliminary yield trial	Gazipur and Rajshahi
99	Development of nematode resistant aerobic rice lines	Development of nematode (<i>Meloidogynegramaenicola</i>) resistant aerobic rice with high yielding potential	Gazipur and Rajshahi
100	Identification of suitable water-use-efficient genotype and appropriate water management under low water situation	To find out water requirement of different genotypes under aerobic situation that reduces yield decline and to identify water use efficient genotypes under aerobic condition	Gazipur
101	Preliminary Yield Trial (PYT) for green super rice	Initial yield evaluation of selected materials and other agronomic characteristics in replicated trial	Gazipur Rajshahi
102	Secondary Yield Trial (SYT) for green super rice	Confirmation of yield potential in replicated trial	Gazipur, Rajshahi and Sathkhira
103	Regional yield trial (RYT) for green super rice	To evaluate specific and general adaptability of the genotypes in on- station condition	Gazipur, Rajshahi, Rajshahi and Sathkhira
104	Proposed variety trial (PVT) for green super rice	On-farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Rajshahi, Rangpur, Kustia, Barisal, Feni, Comilla, Habigonj, Sathkhira, Gazipur, Mymensingh
105	Evaluation of agronomic performance of GR2-E BRRI dhan29 Golden Rice backcross introgression lines under contained facilities	To investigate agronomic performance and acclimatize the introduced introgression lines under containment	Gazipur

SL No.	Research Title	Objective(s)	Location
106	Marker Assisted introgression of GR2-E trait into a T. Aman and a second Boro variety	Development of introgression lines in the background of a T. Aman variety and second Boro variety	Gazipur
107	International Rainfed Lowland Rice Observational Nursery	Selection of promising lines suitable for rainfedlowland environment	Gazipur, Comilla, Rajshahi
108	International Rice Soil Stress Tolerance Nursery (IRSSTN) - Module 1 (Coastal salinity, wet season)	Selection of promising lines suitable for coastal saoline environment	Satkhira
109	International Rice Blast Nursery	Selection of promising blast resistant breeding lines with acceptable plant type	Gazipur
110	International Rice Bacterial Blight Nursery	Selection of promising BB resistant breeding lines with acceptable plant type	Gazipur
111	International Rice Brown Plant Hopper Nursery	Selection of promising BPH resistant breeding lines with acceptable plant type	Gazipur
112	Green Super Rice Trial-RFLY Yield	Selection of promising breeding lines with green super traits	Gazipur
113	Hybridization for salt tolerant rice variety	Introgression of salinity tolerant trait(s) in high yielding varieties suitable for coastal region in RLR ecosystem	Gazipur
114	F1s confirmation for salt tolerant variety	To confirm the crosses as true hybrid	Gazipur
115	F2 population for salt tolerant rice variety	To select suitable progenies from F2 population	Gazipur
116	Pedigree nursery (F3-F7) for salt tolerant rice variety	Selection of progenies from segregating population for salinity tolerance	Gazipur
117	Observational Trial for salt tolerant rice variety	Identification of advance lines suitable for saline areas	Gazipur, Satkhira
118	Preliminary Yield Trial (PYT) : 1, 2 and 3 for salt tolerant rice variety	Initial yield evaluation of advance lines in replicated trial in saline field condition	Gazipur & Satkhira
119	Secondary Yield Trial (SYT) for salt tolerant rice variety	Confirmation of yield potential of selected materials in replicated trial in saline field condition	Gazipur & Satkhira
120	Participatory Variety Selection (PVS) for salt tolerant rice variety	Selection of suitable genotypes by participating farmers suitable for saline prone areas	Gazipur& Satkhira
121	INGER Trial (IRSSTN) for salt tolerant rice variety	To use in salt tolerant varietal development	Gazipur & Satkhira
122	QTL pyramiding (other than Saltol)	Introgression of <i>Saltol</i> and <i>Sub1</i> QTLs into the genetic background of BRRI dhan49 through marker assisted selection	Gazipur
123	Hybridization for premium quality rice	Introgression of extra long grain and small grain with or without aroma into high yielding rice genetic background	Gazipur

SL No.	Research Title	Objective(s)	Location
124	F1 Confirmation for premium quality rice	To confirm the crosses as true hybrid	Gazipur
125	Growing of F2 Population for premium quality rice	To select progenies with emphasis on earliness, plant type, grain type and high yield potential compared to standard varieties	Gazipur
126	Growing of pedigree nursery (F3-F6) for premium quality rice	Selection of progenies with improved plant type, earliness, premium quality grain and high yield potential compared to standard varieties	Gazipur
127	Observational trial for premium quality rice	Selection of homogeneous breeding lines with fine grain properties having high yield with good plant type	Gazipur
128	Preliminary Yield Trial (PYT) for premium quality rice	Initial yield evaluation of advanced lines compared to standard checks	Gazipur
129	Secondary Yield Trial for premium quality rice	Confirmation of yield potentiality of advanced lines compared to standard checks	Gazipur
130	Secondary Yield Trial (SYT) for premium quality rice	Confirmation of yield potentiality of advanced lines compared to standard checks	Gazipur
131	Advanced Line Adaptive Research Trial (ALART) for premium quality rice	To evaluate specific and general adaptability of the advance breeding lines as compared with standard checks in on-station condition	
132	Hybridization for favorable Boro variety	Introgression of earliness and plant type into high yielding rice genetic background	Gazipur
133	F1 confirmation for favorable Boro variety	To confirm the crosses as true hybrid	Gazipur
134	Segregating populations for favorable Boro variety	To select progenies with emphasis on, grain type and high yield potential compared to standard varieties	Gazipur
135	F2 Populations for favorable Boro variety	To select progenies with emphasis on earliness, plant type, grain type and high yield potential compared to standard varieties	Gazipur
136	Pedigree Nursery (F3-F7) generations for favorable Boro variety	Selection of progenies with improved plant type, earliness and high yield potential compared to standard varieties	Gazipur
137	Observational Trial for favorable Boro variety	Selection of homogeneous breeding lines with fine grain properties having high yield with good plant type	Gazipur
138	Preliminary Yield Trial for favorable Boro variety	Initial yield evaluation of advanced lines compared to standard checks	Gazipur
139	Secondary Yield Trial	Confirmation of yield potentiality of advanced lines compared to standard checks	Gazipur
140	Regional Yield Trial for favorable Boro variety	To evaluate specific and general adaptability of the genotypes in on- station condition	Regional Station (RS)
141	Advanced Lines Adaptive Research Trial-1,2 for favorable Boro variety	To evaluate specific and general adaptability of the genotypes in on- station condition	10 locations for each trial

SL No.	Research Title	Objective(s)	Location
142	Hybridization for cold tolerant rice	Development of new genotypes with cold tolerance along with resistance to major insect pests and diseases, and acceptable grain quality	Gazipur
143	Confirmation of F1 for cold tolerant rice	To confirm the crosses as true hybrid	Gazipur
144	F2 population for cold tolerant rice	To select superior progenies with emphasis on sturdy and strong plant type, more tillering ability with less or no unproductive tiller and lodging resistance	Gazipur
145	Pedigree nursery (F3-F8 generation) for cold tolerant rice	To select progenies with emphasis on modern plant type, large panicle, more grains in panicle, lodging resistance and acceptable grain quality	Gazipur
146	Observational Trial for cold tolerant rice	To select genetically fixed lines with desirable agronomic characters with less or no unproductive tiller, intermediate plant height, short growth duration, acceptable grain quality and high yield potential	Gazipur
147	Preliminary Yield Trial for cold tolerant rice	Evaluation of initial yield potential in replicated plots	Gazipur
148	Regional Yield Trial for cold tolerant rice	Evaluation of the breeding lines for yield potential and adaptability test under different agro-climatic conditions of Bangladesh	RS
149	Marker assisted introgression of seedling stage cold tolerance into BRRI dhan28 from Hbj. BVI	Introgression of seedling cold tolerance	Gazipur
150	Marker assisted introgression of seedling stage cold tolerance into BRRI dhan28 from IR90688-20-1-1-1-1	Introgression of seedling cold tolerance	Gazipur
151	Rapid Generation Advance of F2 Population	Rapid advances of segregating generations to develop breeding and mapping population	Gazipur
152	Evaluation of CS2 genotypes for reproductive stage cold tolerance under artificial condition	To select progenies having cold tolerance at both seedling and reproductive at reproductive stage	Gazipur
153	Observational Trial for low amylose rice	To select genetically fixed lines with desirable agronomic characters with less or no unproductive tiller, intermediate plant height, short growth duration, acceptable grain quality and high yield potential	Gazipur
154	Preliminary Yield Trial for low amylose rice	Evaluation of initial yield potential in replicated plots	Gazipur
155	Secondary Yield Trial for low amylose rice	Confirmation of yield potential in replicated plots	Gazipur

SL No.	Research Title	Objective(s)	Location
156	Hybridization for micronutrient rice	Development of new genotypes with high iron and zinc content along with resistance to major insect pests and diseases, and acceptable grain quality	Gazipur
157	Confirmation of F1 for micronutrient rice	To confirm the cross as true F ₁ s and use of the selected F ₁ s to produce F ₂ seeds and in different types of crosses	Gazipur
158	F2 population for micronutrient rice	To select superior progenies with emphasis on sturdy and strong plant type, more tillering ability with less or no unproductive tiller and lodging resistance	Gazipur
159	Pedigree nursery for micronutrient rice (F3-F8 generation)	To select progenies with emphasis on modern plant type, large panicle, more grains in panicle, lodging resistance and acceptable grain quality	Gazipur
160	Observational Trial for micronutrient rice	To select genetically fixed lines with desirable agronomic characters with less or no unproductive tiller, intermediate plant height, short growth duration, acceptable grain quality and high yield potential.	Gazipur
161	Preliminary Yield Trial for micronutrient rice	Evaluation of initial yield potential in replicated plots	Gazipur
162	Secondary Yield Trial for micronutrient rice	Confirmation of yield potential in replicated plots	Gazipur
163	Regional Yield Trial for micronutrient rice	Evaluation specific and general adaptability under on-station condition	Gazipur and RS
164	Confined field trial evaluation of Golden rice event GR2-E in BRRI dhan29	To evaluate phenotypic and agronomic performance under field conditions of advanced breeding lines containing the GR2-E event	Gazipur
165	Transferring golden rice trait into high yielding varieties (BRRI dhan28 and BRRI dhan52)	To introgress golden rice trait into high yielding varieties	Gazipur
166	Marker Assisted Selection for introgressing <i>SUB1</i> QTL into BRRI dhan62	Introgression of flash flooding tolerant QTL into short duration, high yielding, Zn enriched variety developed by BRRI utilizing Marker-Assisted Selection procedures	Gazipur
167	Confirmation of F1 for climate resilient rice variety	Confirmation of F ₁ s as true crosses and selection of promising ones	Gazipur
168	Growing and selection of segregating progenies from pedigree population (F2, F3 & F5 population) for climate resilient rice variety	Selection of desirable progenies having high grain yield potentials under low water condition from pedigree population	Gazipur
169	Observational Yield Trial-Rainfed South Asia (OT#1) for climate resilient rice variety	Selection of breeding lines with higher yield potential, shorter growth duration and better adaptation under low water environment compared to the standard checks to initiate advanced yield trial	Rajshahi (On-farm & On-Station)

SL No.	Research Title	Objective(s)	Location
170	Observational Yield Trial-Drought Rainfed Lowland (OT#2), Boro 2015-16 for climate resilient rice variety	To select materials with higher yield potentials and shorter growth duration than the standard checks to initiate preliminary yield trial	Gazipur
171	Observational Yield Trial-(GSR+Rainfed) (OT#3 for climate resilient rice variety	To select materials with higher yield potentials and shorter growth duration than the standard checks to initiate advanced yield trial	Gazipur
172	Observational Yield Trial-Aerobic (OYT#4) for climate resilient rice variety	Selection of breeding lines with higher yield potential, shorter growth duration and aerobic adaptation compared to the standard checks to initiate advanced yield trial	Rajshahi (On-farm & On-Station)
173	Observational Yield Trial-AWD (OT#5 for climate resilient rice variety	To select materials with higher yield potentials and shorter growth duration than the standard checks to initiate preliminary yield trial	Gazipur
174	Advanced Yield Trial - Medium for climate resilient rice variety	Advanced evaluation of promising breeding lines for their phenotypic acceptability, adaptation under alternate wet and dry (AWD) condition and grain yield potentials	Gazipur, Rajshahi
175	Advanced Yield Trial - Late for climate resilient rice variety	Advanced evaluation of promising breeding lines for their phenotypic acceptability, adaptation under alternate wet and dry (AWD) condition and grain yield potentials	Gazipur, Rajshahi
176	Preliminary Yield Trial PYT#1 for green super rice	Evaluation of initial yield potential in replicated plots	Gazipur
177	Preliminary Yield Trial PYT#2 for green super rice	Evaluation of initial yield potential in replicated plots	Gazipur
178	Secondary Yield Trial SYT#1,2 for green super rice	Confirmation of yield potential in replicated plots	Gazipur
179	Regional Yield Trial (RYT) for green super rice	Evaluation specific and general adaptability under non-station condition	RS
180	Advanced line Adaptive research Trial(ALART) for green super rice	To evaluate specific and general adaptability of the genotypes in on- station condition	10 locations selected by ARD
181	Secondary Yield Trial (SYT) for less water requiring rice	Evaluation of medium growth duration rice genotypes for adaptation against AWD condition with 5 days after water disappearing (DAWD) treatment	Gazipur
182	Validation trial of some promising rice lines under low water condition	Evaluation of newly identified Boro lines compared to standard checks for testing their specific and general adaptability under low water available condition of Boro season	Rangpur, Lalmonirhat, Nilfamari and Kurigram

SL No.	Research Title	Objective(s)	Location
183	Validation trial of some Boro varieties under late boro condition	Evaluation of Boro varieties compared to standard checks for testing their specific and general adaptability under low water available condition of Boro season	4 locations in greater Rangpur region
184	Hybridization for upland aus variety	To integrate traits including earliness (<100 days), drought and lodging tolerance into high yielding genetic background	Gazipur
185	F ₁ Confirmation for upland aus variety	Confirmation of F ₁ s as true hybrid	Gazipur
186	Growing of F ₂ population for upland aus variety	Selection of progenies with improved plant type for upland field condition	Gazipur
187	Pedigree nursery for upland aus variety	To select desirable progenies with emphasis on earliness, high yield potential, semi dwarf to intermediate plant type and resistance to drought at upland field condition	Gazipur
188	Observational Trial (OT) for upland aus variety	To select lines homogeneous for morpho-agronomic characters having early seedling emergence, good seedling vigor, uniformity in heading, short growth duration and tolerance to lodging at upland field condition	Gazipur
189	Preliminary Yield Trial for upland aus variety	Preliminary yield assessment of advanced genotypes selected from OT in a replicated trial	Gazipur
190	Secondary Yield Trial for upland aus variety	Secondary evaluation of breeding lines selected from PYT	Gazipur
191	Regional Yield Trial for upland aus variety	To evaluate specific and general adaptability of the genotypes in on- station condition.	Gazipur, Rajshahi, Kushtia, Sonagazi, Habiganj
192	Evaluation of Nerica genotypes and local upland (Aus) germplasm	To evaluate the performance of Nerica genotypes and upland rice germplasm for early seedling emergence, good seedling vigor, tolerance to drought and lodging at upland field condition	Gazipur
193	Evaluation of advance breeding lines for deep rooting ability	To evaluate of advance breeding lines for deep root system	Gazipur
194	International Upland Rice Observational Nursery (IURON)	To identify breeding lines adaptable for direct seeded (Upland Aus) condition in Bangladesh	Gazipur
195	Screening of local rice germplasm for faster vegetative growth and prolong grain filling stage	Isolation of new germplasm for faster vegetative growth with prolonged grain filling stage	Gazipur
196	Hybridization for developing aus varieties	To introgress gene(s) for earliness, pre-harvest sprouting tolerance and quality grains into high yielding genotypes	Gazipur
197	8x8 half diallel crosses for aus varieties	To investigate general and specific combining ability of selected parents and specific cross combinations generated through the 8X8 half-diallel crosses	Gazipur

SL No.	Research Title	Objective(s)	Location
198	Confirmation of F ₁ for aus varieties	Confirmation of F ₁ s as true crosses and selection of promising ones	Gazipur
199	Growing of F ₂ population for aus varieties	Selection of progenies having earliness, lodging tolerance and medium bold to medium Slender grain types	Gazipur
200	Pedigree nursery (F ₃ -F ₇ Generation) for aus varieties	To select high yield potential progenies with good grain type, short growth duration and disease and insect pest resistance under field condition	Gazipur
201	Observational Trial (OT) for aus varieties	To select materials with higher yield potentials and shorter growth duration than the standard checks to initiate preliminary yield trial	Gazipur
202	International Irrigated Rice Observational Nursery-Module 1 and International Heat Tolerance Rice Observational Nursery	Evaluation of breeding lines (received from INGER) for homogeneity in flowering and better phenotypic acceptance in the field condition	Gazipur
203	Preliminary yield trial (PYT)-1 for aus varieties	Preliminary evaluation of promising breeding lines in replicated trial	Gazipur
204	Preliminary Yield Trial (PYT)-2 for aus varieties	Preliminary evaluation of promising breeding lines in replicated trial	Gazipur
205	Preliminary Yield Trial (PYT)-3 for aus varieties	Preliminary evaluation of promising breeding lines in replicated trial	Gazipur
206	Secondary Yield Trial (SYT) for aus varieties	Secondary evaluation of the breeding lines for yield potential in replicated trial	Gazipur
207	Maintenance of nucleus seed stock for aus varieties	To maintain genetic purity of T. Aus rice varieties	Gazipur

HYBRID RICE DIVISION

208	Source Nursery	Identification of prospective maintainers and restorers from diverse genetic origin	Gazipur
209	Source Nursery	Identification of prospective maintainers and restorers from diverse genetic origin	Gazipur
210	Testcross Nursery	<ul style="list-style-type: none"> • Confirmation of maintainers and restorers from the crossed entries • Selection of heterotic rice hybrids • Conversion of prospective maintainers into new CMS lines 	Gazipur
211	Backcross Nursery	Developing CMS lines from identified maintainer by back crossing	Gazipur
212	CMS Maintenance and Evaluation Nursery	To maintain and evaluate of existing CMS lines for genetic purity	Gazipur
213	Source Nursery	To develop new CMS lines resistance to disease and selection of heterotic rice hybrids resistance to disease (BB)	Gazipur
214	Hybridization	To transfer bacterial blight resistance genes into hybrid rice parental lines	Gazipur

SL No.	Research Title	Objective(s)	Location
215	Confirmation of F ₁	Confirmation of crosses to introgression genes for disease resistance with intermediate plant height	Gazipur
216	Development of BC ₂ F ₁ population	To identify BB resistance maintainers and/or restorers from F ₁ and BC ₁ F ₁ populations	Gazipur
217	Development of BC ₃ F ₁ population	To identify BB resistance maintainers and/or restorers from F ₁ and BC ₁ F ₁ populations	Gazipur
218	Screening of F ₁ , BC ₁ F ₁ populations against BB	Recovery of backcross materials to background of recurrent parent with Xa4, Xa5, X7, Xa13 & Xa21 gene	Gazipur
219	Pedigree nursery for development of BB resistance parental lines of hybrid rice	To select progenies with emphasis on earliness, intermediate height, high yield potential and disease resistance	Gazipur
220	Improvement of parental lines by (B x B) and (R x R) crosses	To broaden the genetic base of parental lines	Gazipur
221	Evaluation of experimental hybrids (OT)	Selection of promising hybrids	Gazipur
222	Preliminary Yield trials of promising hybrids	To study the wider adaptability and yield potentiality of promising hybrids	Gazipur
223	Advance line adaptive research trials (ALART)	To study the yield potentiality of promising hybrids at farmer's field	Gazipur, Rangpur, Dinajpur, Satkhira, Mymensingh
224	Combining ability of A, B & R lines	To select the best combiner(s) in respect of grain yield and yield components	Gazipur
225	National Hybrid Rice Yield Trial (NHRYT)	To identify promising hybrids from home and abroad	Gazipur
226	Quality ensures of previous season produced F ₁ and CMS lines through grow out test	To determine purity of parental lines of BRRI released hybrid rice and its hybrid	Gazipur
227	Demonstration Trials of Released and promising hybrids	To evaluate released hybrids for their adaptability, stability, spikelet fertility, agronomic characteristics and disease & insects reactions	Gazipur
228	Validation Trial of BRRI hybrid dhan3 at Rangpur regions	To evaluate the performance of BRRI hybrid dhan3 at farmer's level	Rangpur, Kurigram, Lalmonirhat, Nilphamari, Barisal, Jhalokhati, Barguna, Patuakhali

SL No.	Research Title	Objective(s)	Location
229	Evaluation trial of promising hybrids	To evaluate the performance of promising hybrids at farmer's level	Barisal, Rangpur, Gazipur, Bogra & Sherpur
230	Multiplication of promising CMS lines	To produce pure and good quality seed of CMS lines for subsequent use	Gazipur
231	CMS line multiplication of BRRI hybrid dhan	To produce pure and good quality seed of CMS lines for subsequent use	Gazipur
232	F ₁ seed production of promising hybrids	Production of sufficient quantity of quality F ₁ seeds of promising hybrids for subsequent use	Gazipur
233	Growth duration differentiation method for synchronization in flowering	To determine proper heading time of parental lines (A & R) of promising hybrids	Gazipur
234	F ₁ seed production of BRRI hybrid dhan	Production of sufficient quantity of quality F ₁ seeds for subsequent use	Gazipur
235	Maintainer and restorer lines multiplication of BRRI released hybrids	Production of sufficient quantity quality parental lines for subsequent use	Gazipur
236	Establishment of crossing block for nucleus seed production	To initiate crossing program for nucleus seed production.	Gazipur
237	Maintainer and restorer lines multiplication of BRRI released & promising hybrids	Production of sufficient quantity quality parental lines for subsequent use	Gazipur
238	Large scale seed production of BRRI hybrid dhan	Production of sufficient quantity of quality F ₁ seeds for subsequent use	Gozalia, Barisal

BIOTECHNOLOGY DIVISION

239	Development of low glycemic index (GI) rice variety through anther culture	To develop low glycemic index rice variety	Gazipur
240	Development of salt tolerant rice variety through anther culture	To develop salt tolerant rice variety	Gazipur
241	Development of aromatic and fine grain rice through anther culture	To develop aromatic and fine grain rice variety	Gazipur
242	Development of Aus variety through anther culture	To develop short duration high yield Aus rice variety	Gazipur
243	Development of Swarna type rice variety through anther culture	To develop Swarna type rice variety	Gazipur

SL No.	Research Title	Objective(s)	Location
244	Development of somaclone using EMS treated rice seed	To create somaclonal variation towards developing modern rice varieties	Gazipur
245	Progeny selection	To select the best progeny with high yield and desirable traits	Gazipur
246	Observational trials	To select agronomically desirable and high yield potential materials	Gazipur
247	Primary yield trials	To evaluate initial yield potential of advanced breeding lines	Gazipur
248	Secondary yield trials	To evaluate further yield potential of advanced breeding	Gazipur
249	Regional yield trials	To evaluate yield potential of advanced breeding in the regional level	Gazipur and RS
250	Developing rice variety through wide hybridization followed by embryo rescue	To develop different stress tolerant rice variety through wide hybridization	Gazipur
251	Developing rice variety through wide hybridization followed by anther culture	To develop modern rice variety rice for Aus, Aman and Boro	Gazipur
252	Development of salt tolerant transgenic rice	To develop salt tolerant transgenic rice lines	Gazipur
253	Development of drought and salt tolerant transgenic rice	To develop drought and salt tolerant transgenic rice lines	Gazipur
254	Development of drought and salt tolerant transgenic rice through backcrossing (ABSPII Project)	Introgression of drought and salinity tolerant <i>TPSP</i> gene into BRRI released varieties through backcrossing for making drought and salinity tolerance transgenic rice lines	Gazipur
255	Identification of yield enhancement QTLs	To identify yield enhancing QTLs for enhancing grain yield of elite Bangladeshi rice varieties	Gazipur
256	Identification of QTLs for salinity tolerance both at seedling and reproductive stage	To identify QTLs for salt tolerance both at seedling and reproductive stage	Gazipur
257	Identification of QTLs for taller seedling height	To identify QTLs for taller seedling height for developing tidal submergence tolerant rice variety	Gazipur
258	Gene pyramiding for resistance to bacterial blight (BB)	To develop breeding lines possessing two (<i>xa13</i> and <i>Xa21</i>) BB resistance genes through Marker Assisted Selection	Gazipur
259	Isolation and cloning of salt tolerant gene	To isolate salt tolerant gene	Gazipur

GENETIC RESOURCES AND SEED DIVISION

260	Collection of rice germplasm	To collect cultivated and wild rice germplasm from unexplored areas especially from hilly,	All over the country
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SL No.	Research Title	Objective(s)	Location
		coastal and haor areas of Bangladesh and to document the collected rice germplasm for different users	
261	Rejuvenation and conservation of rice germplasm	To rejuvenate the Genebank accessions with fresh stock and to register the new collection by giving BRRI Rice Genebank accession number after cross checking the duplication	Gazipur
262	Morphological characterization of rice germplasm	To characterize rice germplasm as per BRRI prescribed descriptor and UPOV convention including digital photos and documentation in the computer	Gazipur
263	Molecular characterization of rice germplasm	To characterize the rice germplasm through molecular tools (DNA Fingerprinting using SSR marker) for rice researchers	Molecular Laboratory, GRSD, Gazipur
264	Rice germplasm exchange	To share germplasm to researchers at home and abroad for rice improvement with prescribed MTA	Gazipur
265	Documentation of rice germplasm	To document the characterized rice germplasm through digital photos and computer database documentation system for different users	Gazipur
266	Nucleus seed production	To maintain genetic purity and homogeneity of morphological characteristics of BRRI developed rice varieties as a source of breeder seed	Gazipur
267	Breeder seed production	To produce and supply of breeder seed of BRRI developed rice varieties as per indent of GO, NGOs and PS seed producing organizations/companies/entrepreneurs	Gazipur and RS (8)
268	Monitoring of breeder seed production farms	To visit breeder seed plots of BRRI regional stations at flowering and maturity stages for confirmation of quality of produced seed	Gazipur and eight RS (8)
269	Monitoring of foundation seed production farms	To visit foundation seed plots of seed producing agencies at flowering and maturity stages for confirmation of quality of produced seed by seed growers	All over the country (demand based)
270	Maintenance of BRRI recommended HYVs and LIVs	To maintain the HYVs (High Yielding Variety) and LIVs (Locally Improved Variety) for encouraging farmers to cultivate and for any purpose	Gazipu
271	Studies on selection criteria and genetic divergence	To estimate genetic variability, character associations and genetic relationships of rice germplasm	Gazipur
272	Characterization and genetic study of double kernel rice	To characterize and genetics study of formation of the double kernel rice	Gazipur
273	Multiplication and dissemination of popular rice germplasm of southern region	To purify and multiply the popular rice germplasm (Balam, Khajurjhupi, Bashphool, Sadamota, lalmota etc) cultivated in southern region and delivery the pure seed to the farmers	Gazipur and Barisal

SL No.	Research Title	Objective(s)	Location
274	Preliminary yield trial of Monibandhobi genotype	To evaluate the yield performance of Monibandhobi as a potential local cultivar compared to standard checks.	Gazipur
275	Identification of new QTL for salinity tolerance	To identify QTL conferring salinity tolerance in rice	Gazipur and GRSD Molecular Lab
276	Study on DUS parameters and DNA fingerprinting of recently BRRI developed rice varieties using SSR markers	<ul style="list-style-type: none"> To characterize BRRI developed rice varieties using DUS parameters (BR51-BR69) To provide unique DNA profile for the protection of BRRI released rice varieties (BR51-BR69) using SSR markers 	Gazipur
277	Identification of duplicate(s) in similar or duplicate named aromatic rice genotypes using morphological and molecular markers (aroma linked SSR)	To characterize the duplicate named aromatic rice germplasm using morphological and SSR markers	Gazipur
278	Identification of QTL for heat tolerance from selected rice germplasm of Bangladesh	To identify QTL for heat tolerance in selected rice germplasm of Bangladesh	Gazipur and IRRI, Philippines
279	Identification of QTL for anaerobic germination (AG) tolerance of selected rice germplasm of Bangladesh	To identify QTL for anaerobic germination potentiality in selected local rice germplasm of Bangladesh	Gazipur and IRRI, Philippines
280	Identification of Wild Rice(s)	To identify the taxonomy of unidentified wild rice samples	Gazipur
281	Storage potential of HYV, hybrid parental lines and hybrid seeds of rice	To know the declining rate of germination, vigour and viability of HYV, hybrid parental lines and hybrid seeds of different varieties of rice for safe storage	Gazipur

GRAIN QUALITY AND NUTRITION DIVISION

282	Determination of physicochemical and cooking properties of rice grain	To determine physicochemical and eating quality of newly developed breeding lines for identifying lines with superior grain quality	Gazipur
283	Evaluation of physicochemical properties of BRRI varieties.	To determine physicochemical and cooking qualities of BRRI (recently released) rice varieties for updating the database	Gazipur
284	Evaluation of nutritional quality of BRRI released varieties on the basis of cooking time of different soaking condition	To determine the nutritional quality of minimum cooking time of BRRI released rice varieties owing to save fuel consumption	Gazipur

SL No.	Research Title	Objective(s)	Location
285	Determination of physicochemical and cooking properties and popped rice quality of Kanak chul rice grain	To determine the physicochemical properties and eating qualities and to compare the superior popping quality with standard check varieties	Gazipur
286	Effect of salinity on grain quality and nutritional status of salt tolerant rice varieties	To evaluate the effect of salinity on physicochemical properties of BRRI released salt tolerant rice varieties	Gazipur
287	Evaluation of high zinc rice varieties through sensory evaluation test	To form a laboratory taste panel of evaluators from the scientists of different research divisions of Bangladesh Rice Research Institute (BRRI), who can evaluate the sensory properties of a rice variety consistently	Gazipur
288	Assessment of rice bran oil extracted from bran of some BRRI released varieties under different storage condition	<ul style="list-style-type: none"> • To extract rice bran oil from different aged rice bran • To standardize storage life of rice bran. • To observe the oil content of rice bran with the time of storage 	Gazipur
289	Determination of chemical and nutritional composition of rice bran oil extracted from different aged bran	<ul style="list-style-type: none"> • To analyze the chemical composition of rice bran oil • To standardize appropriate method of extraction from quality analysis of rice bran oil 	Gazipur
290	Evaluation of commercial rice bran oil and soybean oil available in the market	To determine the peroxide and saponification value, iodine number and fatty Acid composition present in the oil	Gazipur
291	Identification of milled rice by DNA fingerprinting	To genetically identify popular milled rice varieties	Gazipur
292	Study on bioavailability of zinc, iron and estimation of anti-oxidant status in BRRI rice varieties using experimental rat model	To evaluate the bio-availability of micronutrients and estimation of antioxidants properties in all BRRI released HYV and hybrid rice	Gazipur
293	Estimation of GI (Glycemic index) in BRRI HYV and hybrid rice using experimental rat model	To explore low GI (Glycemic Index) rice varieties among BRRI released HYV and hybrid rice using rat model	Gazipur
294	Formulation of rice based biscuit and analyze the nutritional characteristics	<ul style="list-style-type: none"> • To supply fortified/nutrient enrich food products • To provide supplement food to regular diet • To introduce rice based food product as rice is abundant in Bangladesh 	Gazipur
295	Identification of γ -Aminobutyric acid (GABA) and its health benefits as a value added food	<ul style="list-style-type: none"> • To identify GABA (γ-Aminobutyric acid) content in Pre Germinated Brown Rice. • To adopt GABA enrichPGBR based suitable rice product 	Gazipur

SL No.	Research Title	Objective(s)	Location
296	Efficacy of Alkaloid, Phenolic and Limonoids fractions extracted from Swietenia Mahagoni on insect pest of rice	To isolate Alkaloid, Phenolic and Limonoids fractions and their efficacy on rice insect pest	Gazipur
297	Survey on BRRI modern varieties used for indigenous rice products.	To find out the popular BRRI varieties used for puffed and flattened rice.	Gazipur

PLANT PHYSIOLOGY DIVISION

298	Screening rice germplasms and breeding lines towards the development of heat tolerant variety	To identify new heat tolerant donor and advance breeding lines	Gazipur
299	Characterization of advanced breeding lines at different salinity stress for whole growth period	To know the tolerance level of soil and water salinity of rice genotypes	Gazipur
300	Characterization of Aus germplasms as affected by apical dominance	To identify Aus germplasm for faster vegetative growth with prolong grain filling stage	Gazipur
301	Identification of salt tolerance mechanisms of rice.	To study the salt tolerance mechanisms of rice	Gazipur
302	Mapping QTLs for salinity tolerance of Ashfal balam	To map QTLs from Ashfal balam for salinity tolerance in different stages of growth	Gazipur
303	Effect of salinity on seed germination and seedling emergence in rice (<i>Oryza sativa</i> L.)	To determine the tolerance level at germination and post-germination stages of rice	Gazipur
304	Marker assisted selection for introgression of spikelet fertility loci (qSF4.1) from N22 in to two Bangladeshi mega rice variety BRRI dhan28 & 29	To develop heat tolerant rice varieties	Gazipur
305	Effect of salinity on seedling growth in early vegetative phase of rice (<i>Oryza sativa</i> L.)	To determine the tolerance level at early vegetative phase of rice	Gazipur
306	Screening for cold tolerance at seedling stage under natural condition	To find out new sources of cold tolerance rice genotypes	Gazipur
307	Characterization of rice germplasm for flash flood submergence tolerance	To identify tolerant germplasm for 2 weeks of complete submergence	Gazipur

SL No.	Research Title	Objective(s)	Location
308	Evaluation of rice genotypes selected from IRTON for cold tolerance	To identify cold tolerant rice genotypes at natural condition	Gazipur
309	Characterization and evaluation of advanced rice genotypes for cold tolerance at natural condition	To observe cold tolerance level of rice genotypes for whole growth period	Gazipur
310	Observation of phenological development and recovery period of rice varieties at different submergence condition	To observe the phenological development under different submergence conditions	Gazipur
311	Characterization of some rice genotype for medium stagnation	To identify tolerant germplasm under medium stagnation condition	Gazipur
312	Demonstration of polythene cover seed bed technique in Rangpur region (IAPP project activities)	To disseminate polythene covered seedling raising technology among farmers	Rangpur, Kurigram, Nilphamari & Lalmonirhat
313	Characterization of deep water rice at two different environments	To identify tolerant germplasm for different deep flooding condition	Gazipur
314	Dormancy and viability test of BRRI varieties	To determine dormancy and viability period of rice varieties	Gazipur
315	Screening germplasm for drought tolerance at reproductive phase	To identify rice genotypes tolerant to drought stress at reproductive phase	Gazipur
316	Performance of some advance breeding lines under drought stress at reproductive stage	To evaluate physiological performance of rice genotypes under drought stress condition	Gazipur
317	Photo-sensitivity test of BRRI released T.Aman varieties	To know the photo-sensitivity of recently released T.Aman varieties	Gazipur
318	Investigation of CO ₂ – responsive genotypes from Bangladeshi rice germplasms through planting geometry pre-screening technique	To identify best CO ₂ – responsive genotypes through low planting density method	Gazipur

IRRIGATION AND WATER MANAGEMENT DIVISION

319	Determination of physical and hydraulic properties in different soil types	To develop a soil moisture characteristics curve	Gazipur
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SL No.	Research Title	Objective(s)	Location
320	Terminal drought mitigation through integrated approaches in T. Aman cultivation	To determine effect of drought for different transplanting dates	Kushtia
321	Determination of suitable time for application of supplemental irrigation in T. Aman	To determine the relationship between perched water tables depletion during critical stages of rice and grain yield	Kushtia
322	Development of soil moisture declination model for alternate wetting and drying (AWD) irrigation for Rice cultivation	To develop a model for prediction of soil moisture dynamics	Gazipur
323	Effect of drought on different T. Aman varieties	To findout suitable T. Aman variety for drought prone area	Gazipur
324	Study on the problems and potentials for productivity improvement in the Haor areas through agricultural water management	To identify potentials of agricultural productivity improvement through crop and water management	Kishoreganj, Habiganja and Netrokona
325	Rain water harvesting from roof top of BRRI campus, Gazipur	To determine the total amount of rain water harvested from the roof	Gazipur
326	Study on the problems and potentials for productivity improvement through Agricultural water management in the Hilly areas	To recommend suitable water management options for productivity and livelihood improvement in the area	Chittagong, Bandarban and Khagrachhari
327	Study on water stress tolerance for different advanced rice genotype of BRRI	To quantify the tolerance capacity of soil moisture deficit for different varieties that plant suffers during its growing period through Towfique's drought model	Gazipur
328	Assessment of suitable water resources availability for irrigation to increase crop production in tidal areas of Barisal region	To assess the constraints and prospects of tidal water utilization for crop production	Barisal
329	Monitoring of groundwater fluctuation and safe utilization in different geo-hydrological regions	To determine the fluctuation of groundwater level over time and its relationships with rainfall	Gazipur and all regional station

SL No.	Research Title	Objective(s)	Location
330	Delineation of areas having water shortage during Boro rice cultivation in Northwest Bangladesh	To assess the possibility of shifting from Boro to alternative crops (Braus/Aus/Non-rice crops)	Rajshahi and Natore
331	Improving low-cost check valve for STW and test its performance in field level	To develop a low-cost check valve for overcoming priming problem of STW	Gazipur
332	Waste water irrigation for crop production	To develop a mechanism for storing and irrigating waste water	Gazipur
333	Effectiveness of solar pump for irrigated rice	To evaluate economic performance of solar pump for energy output, pump discharge and irrigated area	

AGRONOMY DIVISION

334	Effect of different seed bed media on rice seedling growth during Boro season	To improve the seedling quality under cold spell	Gazipur
335	Effect of seed and seedling priming with Zinc on seedling establishment, growth and yield of rice in saline soil	To determine the effect of primed seed and seedling to rice establishment and yield	Bagerhat, (farmers field)
336	Role of salicylic acid (SA) on quality seedling production of Boro rice under natural cold stress condition	To find out the effect of salicylic acid on quality rice seedling production in Boro season	Gazipur
337	Yield performance of Boro rice at varying time of planting in saline area of Patuakhali district	To find out the optimum time of planting for increasing grain yield	Patuakhali district
338	Effect of time of planting on growth and yield of advanced lines	To determine suitable time of planting and selection of genotypes having high yield potential	Gazipur
339	Adjustment of irrigation frequency for reducing unproductive tillers in irrigated ecosystem	To reduce cost of production and increase grain yield	Gazipur
340	Effect of planting density and seedling age of newly BRRI developed short and long duration rice for yield maximization	To find out appropriate spacing and age of seedling for yield optimization of BRRI released varieties	Gazipur
341	Effect of crop establishment method	To find out appropriate crop establishment method and nutrient management for yield	Gazipur

SL No.	Research Title	Objective(s)	Location
	and nutrient management of newly BRRI developed short and long duration Boro and T. Aman varieties for yield maximization	optimization of newly BRRI released varieties	
342	Effect of different rates of nitrogen and Vermicompost on growth and yield of rice	To improve soil health and increase grain yield of rice	Gazipur
343	Validation of different nutrient management options for increasing yield of rice	To find out suitable nutrient management option in farmers field	Barisal (RS)
344	Nitrogen management in short duration varieties in rainfed condition	To find out the efficiency of USG for maximum grain yield in rainfed condition	Gazipur and Rajshahi
345	Influence of N levels on growth, productivity and quality of premium quality rice under AWD irrigation system.	To investigate the optimum nitrogen and if there any change the grain quality of Premium quality rice under different N levels and AWD irrigation system	Gazipur
346	Performance of BRRI dhan62 under different spacing and levels of nitrogen	To know the growth, yield and NUEs under different spacing and levels of nitrogen	Gazipur
347	Influence of integrated fertilizer on the growth and yield of BRRI dhan69	To determine the combined effect of organic and inorganic fertilizers on the growth and nutrient content of BRRI dhan69	Gazipur
348	Adjustment of splitting ratio of Nitrogen for medium duration (<150d) Boro rice	To increase N use efficiency of rice	Gazipur
349	Performance of Swarna cultivar under Researcher and Farmers' management practices	To find out suitable Swarna cultivar that produce satisfactory grain yield with poor management	Gazipur
350	Evaluation of Urea spray for increasing nitrogen use efficiency of Boro rice by different N application methods	To find out suitable Urea application techniques and Nitrogen Use Efficiency (NUE) in Boro rice	Gazipur and Rangpur
351	Validation of nutrient and crop management options for yield maximization of submergence tolerance variety in Rangpur region	To identify and recommend appropriate nutrient and other crop management option of BRRI dhan51 and BRRI for yield maximization	Kurigram (On Farm)

SL No.	Research Title	Objective(s)	Location
352	Investigation of new weed species in Rice-Mustard-Rice cropping system in Tangail district	To observe new weed species in rice –mustard-Rice cropping system and to find out appropriate weed control options of this system	Tangail (On Farm)
353	Effect of non- selective herbicide to control aquatic weeds and consequences of soil properties to rice productivity in Gopalganj district	To investigate cost effective and appropriate method of aquatic weed control	Gopalganj (On-Farm)
354	Weed control methods on productivity of direct wet seeded rice	To determine effective weed control method	Gazipur
355	Effect of different weed management options in USG applied transplanted rice	To find out the best cost effective weed management option	Gazipur
356	Validation of weed control options and crop management of BRRI dhan56, BRRI dhan57 and BRRI dhan62 in drought condition at Rangpur region in	To identify the appropriate weed and crop management options for yield maximization of BRRI dhan56, BRRI dhan57 and BRRI dhan62 in draught condition	Lalmonirhat Sadar, Pirgong, Rangpur, Rajarhat, Kurigram and Nilphamari Sadar
357	Effect of herbicides on soil microbial population	To observe the status of microbial population after herbicide application	Microbiology lab, Gazipur

SOIL SCIENCE DIVISION

358	Soil profile study of selected areas/ experiments (New)	To determine soil properties for fertilizer and water management	Gazipur
359	Determination of N P K fertilizer doses through SSNM for ALART materials (Ongoing)	To determine optimum doses of N, P, K for ALART materials/newly released varieties	Gazipur
360	Nutrient management for growing four crops in a year (New)	To maintain soil fertility and improve nutrient use-efficiency	Gazipur, Comilla, Rangpur, Rajshahi
361	Effect of nitrogen and potassium on modern rice cultivation	To find out suitable combination of N and K for MV rice cultivation	Gazipur
362	Nitrogen and K dose for targeted yield under AWD situation (ADB water saving 2 nd phase)	To find out optimum dose of N, P, K and other nutrients under safe AWD situation (10-20% water saving)	Gazipur

SL No.	Research Title	Objective(s)	Location
363	Performance of zinc rice varieties under zinc deficient condition	To assess the effect of Zn on chlorophyll, soluble protein and its role in enzymatic activities	Green house, Gazipur
364	Long-term missing element trial at BRRI regional station	To determine nutrient mining problem on soil fertility and its influence on rice yield and to find out nutrient management options for correcting soil problems	Sonagazi, Barisal, Satkhira, Habiganj, Comilla, Rangpur (RS)
365	Long-term effect of organic and inorganic nutrients on yield and yield trend of lowland rice	To evaluate changes in soil physical, chemical and biological properties	Gazipur
366	Effect of intensive rice cropping on rice yield under continuous wetland condition	To evaluate soil fertility and rice yield changes over time and to find out mitigation options of soil health	Gazipur
367	Integrated nutrient management for double and triple rice cropping for maximizing productivity	To improve land productivity and soil health under intensive cropping system	Gazipur
368	Validation of BRRI fertilizer management technology in rice	To disseminate BRRI developed fertilizer management packages in farmers' field	Barisal and Rangpur (On -Farm)
369	Green house gas (GHG) emission trial	To determine GHG emission from rice field under different water management	Gazipur
370	Fertilizer management options for rice production in coastal areas (New)	To develop suitable fertilizer management package for rice production in salt affected soil	Khepupara, Patuakhali
371	Mitigation of soil salinity through chemical amendments	To find out a suitable chemical amendment for reducing soil salinity and improving crop yield	Gazipur
372	Evaluation of soil management packages for rice production in char lands ecosystem	To identify the proper soil management packages through organic and inorganic amendments in char lands ecosystem	Sonagazi
373	Integrated soil management for rice production in haor areas (New)	To identify the proper soil management packages through organic and inorganic amendments in haor areas	Habiganj
374	Determination of soil biomass carbon, nitrogen, enzyme activities and microbial population as a component of soil health	To determine soil urease, phosphatase and phytase enzyme activity as an indicator of N and P nutrient availability	Gazipur (Soil Lab.)

SL No.	Research Title	Objective(s)	Location
375	Effect of long term nutrient management on microbial growth at variable soil depth	To determine the total population at different fertilizer treatment and isolate and enumerate beneficial microbes from different fertilizer treatment	Gazipur (Soil Lab.)
376	Formulation of multistrain biofertilizer for rice production	To formulate a suitable carrier material for growing free-living N fixing and phosphate solubilizing bacteria	Gazipur (Soil Lab.)
377	Isolation and characterization of plant growth promoting bacteria (PGPB) from saline and acidic soil	To characterize the beneficial effects such as, IAA production, P solubilization, N-fixing capacity of these isolates	Gazipur (Soil Lab.)
378	Bioremediation of As contaminated paddy soils	To determine the arsenic reclamation capacity of the potential isolates in laboratory and greenhouse condition	Gazipur

PLANT PATHOLOGY DIVISION

379	Survey and monitoring of rice diseases in selected areas	To investigate the present status of different rice diseases in different climatic environments	Barisal, Comilla, Gazipur, Hobigonj, Rajshahi, Rangpur
380	Confirmation of the standard differential set of blast isolates	To confirm the reaction patterns of selected standard differential blast isolates with blast resistant genes	Gazipur
381	Identification of new blast races across the country	To investigate the potential existence of new races of <i>Pyricularia oryzae</i> in Bangladesh	Gazipur
382	Pathotypic and genetic diversity of <i>Rhizoctonia solani</i> AG1-IA	To estimate the genetic diversity of <i>R. solani</i> AG1-IA using ITS region sequences	Gazipur
383	Molecular characterization of bakanae causing fungi in Bangladesh	To find out the fungi associated with Bakanae disease of rice in Bangladesh	Gazipur
384	Pyramiding major blast resistant gene(s) in susceptible rice variety/lines	To introgress major resistant gene (s) into the selected cultivars to develop isogenic lines and pyramiding the genes in the same background to develop durable blast resistance	Gazipur
385	Pyramiding of major BB resistant gene (s) in susceptible rice variety/lines	To introgress major resistant gene(s) into the selected cultivar to develop durable blast resistant	Gazipur
386	Purification of locally improved Aus variety Mala through pure line selection	To develop suitable T. Aus variety for tidal non-saline sub-ecosystem in Barisal region	Gazipur, Barisal

SL No.	Research Title	Objective(s)	Location
387	Evaluation of blast resistant multiline varieties of IR64	To check resistant reactions and performance of multiline varieties	Gazipur
388	Evaluation of blast resistant multiline varieties of IR49830 in tidal non-saline ecosystem of Barisal	To evaluate the yield potential of blast resistant IR49830	Gazipur, Barisal
389	Recovering ability of recently released T. Aman varieties to tungro under natural condition	To know the varietal resistance against RTV	Comilla
390	BB resistance and yield performance of selected breeding lines	Evaluation of yield performance of the lines along with BB resistance	Gazipur
391	Screening of rice germplasm against blast, bakanae & BB disease	To identify the source of resistance against blast, bakanae and bacterial leaf blight diseases of rice	Gazipur
392	Introgression of Blast resistant genes into BRRI dhan47	To develop durable blast resistant variety harbouring Pi40 and Pi9	Gazipur
393	Screening of rice germplasm and breeding for Ufra resistance	To identify ufra resistant sources from the existing germplasms	Gazipur
394	Screening of rice germplasm and breeding for root knot resistance (ADB Project)	To identify root-knot resistant sources from the existing germplasms	Gazipur
395	Development of mass inoculation technique of false smut disease	To develop mass screening technique against false smut disease	Gazipur
396	Studies on disease development and management of rice false smut disease	To understand the disease development factors and effective management of false smut disease	Gazipur
397	Identification of crop damage phenomenon by red eelworm and their management	To identify whether red eelworm cause significant crop damage or not and formulate sound management strategy to control the pathogen if they are pathogenic	Kustia, Gopalganj, Bagerhat
398	Distribution, severity and yield loss of false smut in Bangladesh and development of a qualitative modeling framework	To identify current status of false smut in Bangladesh and its geographical distribution, to develop yield loss assessment model and to identify the factors associated with false smut spread	Gazipur
399	Integrated approach on rice false smut disease management	To develop integrated management option for controlling false smut disease	Comilla, Gazipur, Rajshahi
400	Studies on identification of seedling blight	<ul style="list-style-type: none"> • Raising of healthy seedling in trays • Identification of the causal organisms 	Gazipur, Rajshahi

SL No.	Research Title	Objective(s)	Location
	pathogens and its management	<ul style="list-style-type: none"> • Incidence of the disease across the seasons • Management of the disease 	
401	Impact of seedling-blight affected seedlings on growth and yield of rice	To investigate the effect of seedling blight on seedling quality, growth and yield of rice	Gazipur, Rajshahi
402	Effect of soil and seedling treatment on False smut disease development	To know the efficacy of both soil and seedling treatment for controlling false smut disease	Gazipur, Rangpur
403	Chemical control of grain spot disease of rice	To identify suitable chemicals to control grain spot disease	Gazipur, Rajshahi, Rangpur
404	Validation of healthy seedling raising (TSR) technique at farmers' level	<ul style="list-style-type: none"> • To develop disease free seedling raising technique in trays and field • To know the difficulties, suitability or sustainability of raising seedling in trays instead of field and the farmers' attitude 	Barisal, Gazipur, Rajshahi, Rangpur
405	Evaluation of advance breeding materials against blast, BB and RTV disease of rice	To identify the source of resistance against blast, BB and RTV	Gazipur
406	Evaluation of new chemicals against blast, ShB, and bacterial blight of rice	To find out the effective chemicals suitable for blast, ShB and BB control	Gazipur, Rajshahi
407	Demonstration on integrated rice disease management in farmers' field under IAPP project	To increase farmers' skill on rice disease management	Barisal, Rangpur
408	Training on rice disease management and healthy seed production under MIAD project	To train up farmers on rice disease management and healthy seed production	Kustia, Meherpur, Jhinaidah, Chuadanga
409	Field demonstration of integrated management of major rice diseases (PGB project)	To scale up disease management technologies in the farmers field and healthy seed production	Bagerhat, Gopalganj, Pirojpur
410	Training on Rice Disease Management (PGB project)	To train up farmers on rice disease management	Bagerhat, Gopalganj, Pirojpur
411	Management of Sheath blight disease utilizing Trichoderma harzianum (PGB project)	<ul style="list-style-type: none"> • The study aims to promote higher yields by improving physico-chemical properties of soil and suppressing sheath blight • Another objective is to evaluate water hyacinth as valuable compost by supplying plant nutrients 	Bagerhat, Gopalganj, Pirojpur

ENTOMOLOGY DIVISION

412	Pest monitoring at BRRI farms	To study the insect pest and their natural enemy incidence at BRRI farm and to create a database to develop a forecasting system	Gazipur Rajshahi
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SL No.	Research Title	Objective(s)	Location
413	Insect pests and natural enemies in light traps	To study the pest and their natural enemy incidence patterns in rice fields and to create a database to develop a forecasting system	All regional stations except Kushtia & Satkhira
414	Constructions of epidemiology information interchange system for migratory disease and insect pests of rice	Establishment of a sustainable multinational collaboration network for the management of migratory rice planthoppers and associated viruses to reduce their incidences below the threshold level in Asian countries	Sirajganj
415	Pests and natural enemies survey and monitoring in Gopalganj, Pirojpur and Bagerhat (Integrated Agricultural Project for Gopalganj, Pirojpur and Bagerhat)	To determine the incidence and abundance patterns of insect pests and their natural enemies in the selective areas	Gopalganj, Bagherhat (If manpower available)
416	Survey of rice insect pests in selected AEZ's of Bangladesh	To find the incidence patterns of the major rice insect pests and their natural enemies in different agro-ecological zones and to examine relationship between biotic and abiotic factors on their abundance	Barisal, Rajshahi, Habiganj
417	Studies on the biology of green mirid bug	To know the biology of green mirid bug	Gazipur
418	Conservation of natural enemies through ecological engineering approaches	To conserve natural enemies through ecological engineering approaches	Gazipur & Rajshahi
419	Monitoring of larval parasitism of rice leaf folders	To understand the efficacy of natural enemies against rice leaffolders	Kushtia
420	Relationship between gall midge damage and yield loss	To determine the yield loss potential of different rice varieties against gall midge damage.	Gazipur Rajshahi
421	Relationship between stemborer damage and yield loss	To determine the yield loss and recovery abilities of different rice varieties against rice stemborer damage.	Rajshahi
422	Incidence of rice leaf-folder and its damage effect on rice grain yield	To know the incidence of rice leaffolder and its effects on yield	Kushtia
423	Test of different insecticides against major insect pests.	To evaluate the effectiveness of commercial formulations of different insecticides against major insect pests of rice	Gazipur
424	Evaluation of sex pheromone against major insect pest (yellow stem borer & leaffolder)	To know the incidence of rice leaf folder and its effects on yield	Gazipur, Rajshahi, Kushtia
425	Effect of some selected insecticide on BPH resurgence	To find out the doses of insecticide for the cause of resurgence development	Gazipur
426	Validation of BRRI recommended practices	To demonstrate BRRI recommended practices for successful management of major insect	Rangpur, Barisal

SL No.	Research Title	Objective(s)	Location
	for the management of major insect pests of rice	pests of rice	
427	Screening of rice germplasm, advance lines and F2 materials against BPH, WBPH and GLH	To identify resistant rice germplasm against BPH, WBPH, GLH and RH	Gazipur
428	Screening of rice germplasm, advance lines and F2 materials against rice gall midge	To identify resistance sources against GM	Gazipur
429	Pest reaction of BRR1 released varieties against major insect pests	To evaluate level of resistance against major insect pests	Gazipur
430	Study on the barn owl (<i>Tyto alba</i>) and their biology for sustainable rat management	<ul style="list-style-type: none"> • To know the biology and feeding preference of the Barn Owl(s). • To develop and explore mass rearing technique for Owl • To find out suitable nest and suitable height for preying, and • To understand food habit for the Owl 	Gazipur and Hobiganj

RICE FARMING SYSTEM DIVISION

431	Study on cropping pattern of Bangladesh and harnessing opportunities for improvement	To create database of existing cropping system in different regions of Bangladesh and prepare cropping pattern map using GIS tools	All district of Bangladesh
432	Study of integrated production system of Sorjan method in Barisal region	<ul style="list-style-type: none"> • Characterize existing production system of Sorjan • Identify and prioritize problems hindering productivity of Sorjan system • Identify scope for increasing productivity of the Sorjan system by inclusion of high value fish and appropriate vegetable and fruit system 	Barisal and Patuakhali
433	Evaluation of crop residue retention for minimum tillage in Wheat –Mungbean-T. Aman cropping system	To evaluate the productivity of Wheat-Mungbean-T. Aman cropping pattern in the context of conservation agriculture	Gazipur and Rajshahi (RS)
434	Development of integrated vegetables, fish and fruit system for shallow mini pond	To develop farming system technology for diversifying and maximizing productivity using aquatic systems	Gazipur
435	Long-term effect of three crop cropping patterns on the agro-economic productivity and soil health	To determine the long-term implications of Potato-Boro-T. Aman, Maize-Mungbean-T. Aman and Boro-T. Aus-T. Aman cropping patterns on: i) System productivity ii) Economic return and iii) Soil health	Gazipur; Rangpur and Rajshahi

SL No.	Research Title	Objective(s)	Location
436	Development of high intensity cropping pattern for Kushtia region	To increase income of the farm families through optimizing cropping intensity and intensify the rice based cropping patterns	Meherpur and Kushtia
437	Evaluation of maize intercropping with vegetables in maize based cropping pattern	To identify the suitable intercrop combination to improve the Maize-Fallow-T. Aman and Maize-Sweet gourd-T. Aman cropping pattern	Chuadanga
438	Performance of different types of seed bed in Aman and Boro seasons	To evaluate different types of seed bed for comparing the quality of seedlings and its impact on yield in Aman and Boro seasons	Gazipur
439	Effect of fertilizer management on double transplanted rice under T. Aman-Boro cropping system	<ul style="list-style-type: none"> To determine optimum fertilizer management for double transplanted rice To increase system productivity 	Gazipur
440	Validation of fertilizer management options for major crops in Kushtia region	<ul style="list-style-type: none"> To compare the different fertilizer management options in Aman, Boro rice, maize and wheat under different cropping patterns in Kushtia region To expedite adoption of improved fertilizer management package 	Kushtia, Jhenaidah, Chuadanga and Meherpur
441	Determination of fertilizer dose for Mustard/Potato- Boro – T. Aman cropping patterns	To determine the fertilizer dose for Mustard/Potato-Boro-T. Aman cropping pattern through omission plot technique	Gazipur and Kushtia
442	Validation of four crop cropping pattern in Kushtia region	To verify the performance of four crop cropping pattern in Kushtia region	Kushtia
443	Inclusion of Rabi crops in Boro- Fallow - T. Aman cropping pattern in medium highland ecosystem	<ul style="list-style-type: none"> To increase total production by inclusion of a Rabi crop in the existing cropping system To increase cropping intensity 	Rajshahi
444	Inclusion of summer vegetables after Boro rice in Mustard- Boro - T. Aman cropping pattern	<ul style="list-style-type: none"> To evaluate the performance of summer vegetables in Mustard-Boro-T. Aman cropping pattern To increase the productivity of the existing three crop system with the inclusion of summer vegetables 	Gazipur
445	Evaluation of BRRI dhan48 as late Boro rice in Mustard-Boro - T. Aman cropping system	<ul style="list-style-type: none"> To find out the performance of BRRI dhan48 as late Boro rice To find out appropriate seedling age of rice after mustard 	Gazipur
446	Evaluation of BRRI dhan48 as late Boro rice in Potato- Boro- T. Aman cropping system in medium highland irrigated ecosystem	<ul style="list-style-type: none"> To find out the performance of BRRI dhan48 as late Boro rice To find out appropriate seedling age of rice after Potato 	Rangpur

SL No.	Research Title	Objective(s)	Location
447	Validation of DWR + Fish-Boro system for DWR ecosystem	To validate farming system technology for diversifying and maximizing production of DWR ecosystem	Gazipur
448	Improvement of relay cropping of Aman with jute in Wheat-Jute-Relay Aman cropping pattern in shallow deep water rice ecosystem	To increase the total productivity of the Wheat-Jute / Aman (Relay) cropping pattern by adopting appropriate Aman (relay) variety and fertilizer management option	Bhanga, Faridpur
449	Development of cropping pattern for different gradients of saline soil	<ul style="list-style-type: none"> To evaluate the performance of different cropping patterns in different gradients of saline soil To diversify the rice based cropping patterns 	Satkhira (Saline Soil)
450	Evaluation of sunflower variety and spacing under different gradient of salinity	To find out suitable variety and optimum plant population for higher productivity of dibbled sunflower in the saline soils	Satkhira
451	Evaluation of fertilizer management in Rice-Dibbled sunflower cropping sequence under different gradients of salinity	<ul style="list-style-type: none"> To optimize the fertilizer dose of Rice-Dibbled sunflower cropping sequence To enhance the productivity of the system 	Satkhira
452	Validation of integrated rice, fish and vegetables system in Ghers	<ul style="list-style-type: none"> To diversify and maximize the productivity of gher To monitor the fertility status of the gher 	Gazipur and Satkhira
453	Evaluations of agronomic options for increasing the productivity of Boro rice in saline soils	<ul style="list-style-type: none"> To Identify suitable agronomic options for boro rice in saline soils Increasing productivity of boro rice under T. Aman-Fallow-Boro cropping sequence 	Satkhira
454	Evaluation of musk melon intercropping with Rabi crops in three crop system in tidal non saline ecosystem	To validate musk melon intercropping for increasing the productivity of three crop system	Nazirpur, Pirojpur
455	Development of three crop systems for medium high tide wetland non saline ecosystem	<ul style="list-style-type: none"> To intensify and diversify the double cropped cropping system To increase the total productivity 	Nazirpur, and Mollarhat and Fakirhat,
456	Development of year round vegetables production practices in <i>Sorjan</i> system	To increase production and make vegetables available round the year	Nazirpur, Pirojpur
457	Adaptive trial of BRRI Boro rice varieties	To evaluate the suitable Boro rice varieties and demonstrate the production technique to increase coverage and the productivity of existing system	Nazirpur, Nesarabad, Pirojpur and Fakirhat
458	Demonstration of USG application in Boro rice	To disseminate the USG use in farmer's fields to save urea and increase yield	Nazirpur, and Mollarhat, Fakirhat

SL No.	Research Title	Objective(s)	Location
459	Evaluation of three crop cropping pattern for Barisal region	<ul style="list-style-type: none"> To assess the suitability and productivity of three crop system To diversify and intensify the crop production system 	Amtoli, Barguna; Babuganj, Barisal and Nalchiti, Jhalokathi
460	Evaluation of rice-based cropping pattern in partially irrigated ecosystem	To evaluate the performance of recently released BRRI Aman varieties in Vegetables-Mungbean-DS Aman cropping system	Gazipur
461	Evaluation of double transplanting in Boro rice at Habiganj haor area under Boro-Fallow-Fallow cropping pattern	<ul style="list-style-type: none"> To evaluate the performance of double transplanted rice To maximize the farmers productivity. To avoid the risk from early flash flood 	Habiganj
462	Evaluation of different cropping patterns for APSIM model validation	<ul style="list-style-type: none"> To evaluate different cropping sequence for APSIM validation To determine water use efficiency of different cropping patterns 	Gazipur
463	Validation of improved cropping patterns for greater Kushtia	To increase the system productivity and income of the farmers through introduction of improved cropping patterns	Kushtia, Jhenaidah, Chuadanga and Meherpur
464	Development and validation of intensified cropping pattern for Northern region	<ul style="list-style-type: none"> To increase income of the farm families through adoption of improved cropping pattern To validate different cropping pattern in northern region To diversify the rice based cropping patterns 	Rangpur, Nilphamari, Kurigram and Lalmonirhat
465	Farmers' training on different cropping systems activities	To improve capacity of the farmers for enhancing adoption of cropping system technologies	Project sites
466	Field days on different cropping systems activities	To motivate farmers for adoption of technologies	Project sites
467	Performance of exotic date palm (<i>Phoenix dactylifera</i>) in homestead and agro-forestry systems	<ul style="list-style-type: none"> To increase diversity in date palm To increase existing agro-forestry system To proper use of in- and around homestead area 	Gazipur, Meherpur
Farm Machinery And Post-Harvest Technology			
468	Evaluating and modifying of BRRI developed machines	To identify the functional problems of BRRI developed farm machines and solve the problems	Gazipur
469	Effect of settling period of soil on performance of Rice Transplanter	To optimize the settling period of puddled soil for proper functioning of the rice transplanter	Gazipur and other locations
470	Design and development of power operated hand reaper	To evaluate the performance in comparison with sickle harvesting	Gazipur

SL No.	Research Title	Objective(s)	Location
471	Modification and evaluation of mechanical rice transplanter for different tillage condition	To evaluate the mechanical transplanter in both puddle and un-puddle conditions	Gazipur Kushtia, Rangpur
472	Study on seedling strength and soil bonding capacity with different filler and base materials for mechanical transplanting	To raise seedling with different base and filler materials	Kushtia, Rangpur (FMPHT Divisional lab, farm)
473	Design and development of a head feed power thresher	To develop a head feed thresher	Gazipur
474	Design and development of a hill dispensing seeder	To develop a hill dispensing seeder	Gazipur
475	Development of seedling raising techniques to combat cold temperature	To observe the effect of different graded polythene and color on seedling quality	Gazipur
476	Design and development of BRRI panicle thresher	To improve the threshing capacity	Gazipur
477	Design and development of Single and double row conical weeder	To design, fabricate and develop a Single and double row conical weeder suitable for weeding both in lowland and upland fields	Gazipur
478	Development of a inclined plate type seeder machine	To design and fabricate a inclined plate seeder machine	Gazipur
479	Development of a manual rice transplanter	To evaluate the performance of the manual transplanter	Gazipur
480	Design and development of a pull type granular urea applicator	To develop a manually operated pull type three rows granular urea applicator	Gazipur
481	Comparative study of different types applicator	To observe the N2 application method on crop performance	Gazipur
482	Design and development of Mini Combine harvester	To evaluate the performance of the combine harvester and compare with imported machine	Gazipur and Chuadanga
483	Development of a power operated chopper	To develop power operated chopping machine	Gazipur
484	Modification of drum seeder	To develop a manually operated pull type drum seeder	Gazipur
485	Comparative performance of different types of mechanical dryer	To evaluate the performance of different types of mechanical dryer	Gazipur
486	Study on milling recovery of BRRI varieties under different drying rate and degree of polishing	To find out optimum drying rate of BRRI varieties for maximum milling yield and head rice recovery	Gazipur

SL No.	Research Title	Objective(s)	Location
487	Design and development of solar dryer	To design, fabricate and develop a batch type solar dryer	Gazipur
488	Design and development of bin type dryer	To design and development of a bin type dryer	Gazipur
489	Improvement of air blow type engelberg huller mill	To design and development of cyclone separator for collection husk and bran	Gazipur
490	Test and evaluation of Collapsible Dryer	To fabricate collapsible dryer with the locally available materials	Gazipur
491	Improvement of rice de-husking and polishing technology	To evaluate the air blow mill in terms of capacity and power consumption and milling recovery	Gazipur
492	Study the storage quality under different degree of milled rice	To study the quality deterioration of milled rice stored in different storage structure	Gazipur
493	Development of a metal storage structure	To design and fabricate a metal silo for storing cereal grain	Gazipur
494	Physical and thermo-chemical characterization of rice husk	To document the physical and thermo-chemical properties of rice husk	Gazipur
495	Biogas generation from household waste	To Produce of biogas from kitchen wastages	Gazipur
496	Characterization of different briquettes originated from agricultural residue	To measure the calorific value of the briquettes and proximate analysis of the briquettes	Gazipur
497	Efficient utilization of solar energy in irrigation, farm machinery operation and electricity supply to household	Develop energy efficient solar irrigation system and utilization of off-peak period of solar energy in operating farm machinery, rice mill, flour mill and supply water to households	Gazipur
498	Development of a Downdraft Gasifier	To design and fabricate a downdraft gasifier and generate producer gas from rice husk	Gazipur
499	Industrial and farm level extension of BRRI machinery and Postharvest technology	To motivate the local entrepreneurs to manufacture BRRI developed machinery	All over the country
500	Training on operation, repair and maintenance of BRRI farm machinery	To improve the operational skill of farm machinery operators / driver /farmers	All over the country
501	Field Trial and Demonstration of Promising Farm Machinery and Technology to the LFS Farmers	To create awareness among the LFS farmers to use farm machinery in their farming operation	IAPP Project Area
502	Mid-term evaluation of FMTD project machinery	To study the extent use of machinery by the farmers	FMTD Project area
503	Field trial, training and dissemination program	To create awareness and demonstrate the benefit of using BRRI machines among the	Kushtia, Chuadanga,

SL No.	Research Title	Objective(s)	Location
	on BRRI farm machineries at Mujibnagar Integrated Agricultural Development Project (MIADP) area	farmers and motivate the local entrepreneurs to manufacture BRRI developed machinery	Jhinaidah & Meherpur
504	Field trial, training and dissemination program on BRRI farm machineries at Pirojpur - Gopalganj- Bagerhat Integrated Agricultural Development Project.	To create awareness among the farmers to use farm machinery in their farming operation and develop skilled operator on agricultural machineries at farm levels	Pirojpur, Gopalganj, Bagerhat

WORKSHOP MACHINERY AND MAINTENANCE DIVISION

505	Design and development of power transmission system of a self-propelled power unit for multiple use	To design a compact size gearbox with mechanism of two forward and a backward speedself - propelled power unit	Gazipur
506	Design, development and modification of self-propelled reaper	To develop user friendly self-propelled reaper	Gazipur
507	Design and development of a power tiller operated grain cleaner	To design and develop a power tiller operated grain cleaner	Gazipur
508	Design and development of fungal spore collector	To develop fungal spore collector	Gazipur
509	Modification of reaper travelling wheel for wet-land condition	To design the suitable wheel for wet-land condition	Gazipur
510	Determination of tilling efficiency of power tiller at selected areas of Bangladesh	To determine the optimum tillage depth for maximum paddy yield	Gazipur and Rajshahi
511	Modification of hydro tiller for better maneuverability	To modify the power transmission system for increasing longevity of hydro tiller	Gazipur
512	Development of management system for farm machinery maintenance	To maintain maximum performance of the machinery, automobiles and equipments	Gazipur
513	Potentiality of engineering workshop for enhancing farm mechanization in selected areas of Bangladesh	<ul style="list-style-type: none"> • To investigate the capacity of engineering workshop in agricultural machinery manufacturing • To study the production and existing use level of agricultural machinery at different farm operations; and • To identify the limitations and prospects of engineering workshop at farm level 	Different Parts in Bangladesh

SL No.	Research Title	Objective(s)	Location
514	Feasibility study of solar energy use in agricultural machinery	To study the suitability of solar energy use in agricultural machinery	Gazipur

AGRICULTURAL ECONOMICS DIVISION

515	Farm Level Adoption and Evaluation of Modern Rice Cultivation in Bangladesh	To determine the region-wise adoption and yield of different rice varieties in different seasons	Agricultural Regions of Bangladesh (10)
516	Establishing Rice Heritage Archives at Bangladesh Rice Research Institute (BRRI)	To review the chronological development of rice culture and collect evidences of rice heritage in the geographical context of Bangladesh	All over Bangladesh
517	Estimation of Costs and Return of MV Rice Cultivation at the Farm Level	To determine the input use level and relative profitability of MVs in different seasons	Agricultural Regions of Bangladesh (10)
518	Tracking of Climate Resilient Rice Varieties Developed by BRRI and its Socio -Economic Performances at the Farm Level	To determine the adoption and yield of different stress tolerant rice varieties and compare productivity, profitability and technical efficiency of stress tolerant BRRI varieties with other varieties	Kurigram, Mymensingh, Habiganj, Rajshahi, Chapai Nawabgonj, Kushtia, Satkhira, Barisal, and Jalokathi
519	A Comparative Economic Study on BRRI dhan29 and Hybrid Rice Production in Haor areas of Bangladesh	To compare the profitability and factor affecting key inputs on BRRI dhan29 and Hybrid rice production	Sunamganj and Kishoreganj
520	Food Security through Enhanced Agricultural Production Diversified Sources of Income, Consumption and Marketing in Haor Areas of Bangladesh	To delineate the productivity, diversified sources of income, food consumption patterns and nature of existing marketing systems	Netrakona and Sunamganj
521	Value Chain Analysis of Rice Bran and Bran Oil in Bangladesh: An Economic Investigation	Sketch the value addition process and share of margin of different agents in the value and supply chain of rice bran and bran oil in Bangladesh	Pabna, Kushtia, Jessore, Bogra and Sherpur
522	Market Integration and Reducing Post-harvest Losses of Rice: Ensuring Food Security in Bangladesh	To determine the nature of integration of domestic rice markets and identify the harvesting and post-harvesting processes and techniques practiced at farm level	Mymensingh Dinajpur and Kustia.

SL No.	Research Title	Objective(s)	Location
523	Impact of Farmers Training on Rice Production	To determine the effectiveness of farmers training on rice production at farm level	Barisal and Rangpur
524	Impact of Rice Production Training on DAE Personnel(SAAOs)	To assess the impact of rice production training on SAAOs and its effectiveness at farm level to dissemination BRRRI technologies	Kushtia, Barisal and Dinajpur
525	Impact of Seasonal Credit on MV Boro Rice Cultivation in Some Selected Areas of Bangladesh	To determine the relative profitability of credit receiver versus credit non-receiver and its factor contribution on MV boro rice cultivation	Mymensingh Region
526	Social Dynamics of Gender Role in Rice Value Chain and Decision Making at Grass Root level	To measuring the extent of gender participation in the rice value chain and decision making process	Mymensingh, Bandarban, and Sunamganj.

AGRICULTURAL STATISTICS DIVISION

527	Stability analysis of BRRRI Varieties	<ul style="list-style-type: none"> To standardize/validate the model for stability analysis To determine the stability index of BRRRI varieties To maintain season, year and location-wise database on BRRRI varieties 	Gazipur& all RS
528	Stability and adaptability analysis of BRRRI released aus varieties in different locations of Bangladesh	<ul style="list-style-type: none"> To identify high yielding Aus rice varieties having wide adaptation and/or specific adaptation to environment and To assess the environmental interaction for their yield stability and adaptability across different environments 	Gazipur & Satkhira & Barisal (RS)
529	Development and validation of producer, consumer and producer cum consumer preference model to rice varieties	<ul style="list-style-type: none"> To determine factors affecting producers' decision on varieties for rice cultivation To determine factors affecting for consumer's preference to rice varieties To validate producers', consumer's and producer cum consumer preference model to different rice varieties 	Kurigram & Thakurgaon, Lalmonirhat & Panchagar
530	Effect of climate change on rice yield in Bangladesh	<ul style="list-style-type: none"> To assess the impact of climate factors on rice yield using ARIMAX and Regression model To identify the best fitted ARIMAX and Regression model for rice production To forecast and compare rice production in Bangladesh using the best fitted ARIMAX and Regression model 	All over the country
531	Seasonal weather forecasting for boro rice production in Bangladesh	<ul style="list-style-type: none"> To develop a suitable model for forecasting daily crop weather for sustainable boro rice production To enrich the technical capacity for crop monitoring by daily weather forecasting 	All over the country

SL No.	Research Title	Objective(s)	Location
532	Suitability mapping of newly released BRRI rice varieties	To construct suitability map of newly released BRRI rice varieties	All over the country
533	Identification of submergence areas for growing newly developed BRRI varieties	<ul style="list-style-type: none"> To construct the submergence area map used for rice cultivation To delineate submergence areas suitable for growing newly developed submergence tolerant BRRI varieties 	All over the country
534	Probability mapping of temperature and rainfall at different growth stages of Aus, Aman and Boro rice	<ul style="list-style-type: none"> To determine the expected maximum, minimum temperature and rainfall in different region of Bangladesh To determine the areas of critical maximum and minimum temperature and rainfall for rice on map of Bangladesh during the period and To estimate the return period of rainfall and high temperature above critical level at reproductive phase in rice growing areas 	All over the country

FARM MANAGEMENT DIVISION

535	The influence of seedling age on tiller production, yield and yield components of rice	To determine the tillering pattern, yield and yield components of rice as affected by seedling age	Gazipur
536	Seed quality of different T. aman rice as affected by rainfed (drought) in ripening (seed formation) phase	To investigate the seed quality of rice that are affected by rainfed produced in different planting dates	Gazipur
537	Effect of quality seed and farmer's seed for seed production and; yield gap between quality seed used plot and farmers' seed used plots	<ul style="list-style-type: none"> To identify the seed effect on probable yield gap between quality seed and farmers seed Seek the possibilities to increase rice yield through quality seed that could be useful at policy level 	Gazipur
538	Effect of foliar spray of MOP and elemental S for spot free seed production	To evaluate the effectiveness of foliar spray of MOP & S on grain spotting	Gazipur
539	Effect of tillage operation on the productivity and profitability of rice cultivation	To find out the suitable tillage operation for boro rice cultivation	Gazipur
540	Effect of fungicide and water stress on the natural incidence of neck blast (<i>Pyricularia Oryzae</i>) in boro rice	To determine the effect of post-flowering water stress on neck blast and suitable method of chemical control	Gazipur

SL No.	Research Title	Objective(s)	Location
541	Agronomic management of rice sheath blight disease in natural condition for seed production	To identify individual and interaction effect of different option of sheath blight disease management in seed production	Gazipur
542	Rice Seed Production	<ul style="list-style-type: none"> To disseminate BRRI released rice varieties. Better utilization of BRRI land and other resources 	Gazipur
543	Management Activities: Management of land, labor, farm implements, flower garden, irrigation and drainage etc.	Better utilization of farm land and other resources for smooth running of research activities of BRRI	Gazipur

ADAPTIVE RESEARCH DIVISION

544	Advanced Lines Adaptive Research Trials (ALART)	<ul style="list-style-type: none"> To evaluate the yield potential and adaptability of advanced breeding lines at farmers' field in different agro-ecological conditions To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE personnel 	Gazipur, Naoga, Rangpur, Barisal, Chittagong, Kushtia, Moulvibazar, Satkhira, Bagerhat, Sherpur, Khagrachari
545	Seed Production and Dissemination Program (SPDP)	<ul style="list-style-type: none"> To motivate farmers to produce quality seeds of the BRRI varieties and exchange among other farmers for rapid dissemination of varieties To collect feedback information about BRRI varieties and other technologies 	Rajbari, Magura, Narail
546	SPDP, T. Aus 2015 under GOB	<ul style="list-style-type: none"> To motivate farmers to produce quality seeds of the BRRI varieties and exchange among other farmers for rapid dissemination of varieties To collect feedback information about BRRI varieties and other technologies 	Sherpur, Netrakona, Rajbari, Gazipur
547	Rice Cultivation in Jhum and Vally of Hilly Areas under GOB	<ul style="list-style-type: none"> To increase yield in jhum system through dissemination of modern rice varieties during aus season To increase rice cultivation in plain land of hilly areas 	Bandorban (Sadar), Rangamati (Sadar) and Khagrachori (Sadar)
548	SPDP, T. Aus 2015 under Integrated Agricultural Productivity Project (IAPP)	<ul style="list-style-type: none"> To motivate farmers to produce quality seeds of the BRRI varieties and exchange among other farmers for rapid dissemination of varieties To collect feedback information about BRRI varieties and other technologies 	Barisal (Bakerganj), Patuakhali (Sadar), Rangpur (Pirganj) and Lalmonirhat (Sadar)

SL No.	Research Title	Objective(s)	Location
549	Adaptive trial, T. Aus 2015 under IAPP	<ul style="list-style-type: none"> To evaluate the adaptability of BRRI varieties in Rangpur and Barisal region of Bangladesh and get feedback from the farmers To select location specific suitable varieties and encourage farmers to cultivate the BRRI varieties 	Barisal (Bakerganj), Patuakhali (Sadar), Rangpur (Pirganj) and Lalmonirhat (Sadar)
550	SPDP, T. Aus 2015 under Mujibnagar Integrated Agricultural Development Project (MIADP)	<ul style="list-style-type: none"> To motivate farmers to produce quality seeds of the BRRI varieties and exchange among other farmers for rapid dissemination of varieties To collect feedback information about BRRI varieties and other technologies 	Meherpur (Sadar, Mujibnagar & Gangni), Kushtia (Sadar, Mirpur & Kumarkhali) Jhenaidah (Sadar, Kotchandpur & Kaligonj), Chuadanga (Sadar, Alamdanga & Damurhuda)
551	Farmers' Training	To update knowledge and skills of farmers on modern rice production technologies. To enhance dissemination of new technologies among the farmers	SPDP areas
552	Field day	To create awareness and interest among farmers, local leaders, elite persons, NGO workers and DAE personnel about BRRI varieties and technologies	SPDP areas
553	ALART, Bacterial Blight Resistant, T. Aman 2015	<ul style="list-style-type: none"> To evaluate the yield potential and adaptability of advanced breeding lines at farmers' field in different agro-ecological conditions To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE personnel 	Gazipur, Rajshahi, Rangpur, Thakurgaon, Dinajpur, Barisal, Chittagong, Sherpur, Habiganj, Khulna, Feni and Satkhira
554	ALART, Micronutrient Enriched Rice, T. Aman 2015	<ul style="list-style-type: none"> To evaluate the yield potential and adaptability of advanced breeding lines at farmers' field in different agro-ecological conditions To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE personnel 	Gazipur, Rajshahi, Rangpur, Thakurgaon, Dinajpur, Barisal, Chittagong, Sherpur, Habiganj, Khulna, Feni and Satkhira

SL No.	Research Title	Objective(s)	Location
555	ALART, Rainfed Lowland Rice, T. Aman 2015	<ul style="list-style-type: none"> To evaluate the yield potential and adaptability of advanced breeding lines at farmers' field in different agro-ecological conditions To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE personnel 	Gazipur, Rajshahi, Rangpur, Thakurgaon, Dinajpur, Barisal, Chittagong, Sherpur, Habiganj, Khulna, Feni and Satkhira
556	ALART, Hybrid, T. Aman 2015	<ul style="list-style-type: none"> To evaluate the yield potential and adaptability of advanced breeding lines at farmers' field in different agro-ecological conditions To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE personnel 	Gazipur, Rajshahi, Rangpur, Thakurgaon, Dinajpur, Barisal, Chittagong, Sherpur, Habiganj, Khulna, Feni and Satkhira
557	ALART, Flash Flood Submergence, T. Aman 2015	<ul style="list-style-type: none"> To evaluate the yield potential and adaptability of advanced breeding lines at farmers' field in different agro-ecological conditions To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE personnel 	Gazipur, Jamalpur, Rangpur, Nilphamari, Sylhet, Kurigram, Habiganj, Gaibandha, Lalmonirhat
558	SPDP with USG, T. Aman 2015 under GOB	<ul style="list-style-type: none"> To motivate farmers to produce quality seeds of the BRRI varieties and exchange among other farmers for rapid dissemination of varieties. To collect feedback information about BRRI varieties and other technologies <p>Location: Shatkhira, Jessore, Khulna, Bagerhat, Habiganj, Sylhet, MowlovibazarDinajpur, Chittagong, Gaibandha, Rajbari, Netrokona, Sherpur, Khulna, Cox's Bazar</p>	
559	SPDP with USG, T. Aman 2015 under IAPP	<ul style="list-style-type: none"> To motivate farmers to produce quality seeds of the BRRI varieties and exchange among other farmers for rapid dissemination of varieties To collect feedback information about BRRI varieties and other technologies 	Barisal, Jhalokathi, Patuakhali, Borguna, Rangpur, Lalmonirhat, Kurigram, Nilphamari
560	Adaptive trial, T. Aman 2015 under IAPP	<ul style="list-style-type: none"> To evaluate the adaptability of BRRI varieties in Rangpur and Barisal region of Bangladesh and get feedback from the farmers To select location specific suitable varieties and encourage farmers to cultivate the BRRI varieties 	Barisal, Jhalokathi, Patuakhali, Borguna, Rangpur, Lalmonirhat, Kurigram, Nilphamari

SL No.	Research Title	Objective(s)	Location
561	SPDP with USG, T. Aman 2015 under MIADP	<ul style="list-style-type: none"> To motivate farmers to produce quality seeds of the BRRI varieties and exchange among other farmers for rapid dissemination of varieties To collect feedback information about BRRI varieties and other technologies <p>Location: Meherpur (Sadar, Mujibnagar & Gangni), Kushtia (Sadar, Mirpur & Kumarkhali) Jhenaidah (Sadar, Kotchandpur & Kaligonj), Chuadanga (Sadar, Alamdanga & Damurhuda)</p>	
562	QSPDP, T. Aman 2015 under EQSS	<ul style="list-style-type: none"> To motivate farmers to produce quality seeds of the BRRI varieties and exchange among other farmers for rapid dissemination of varieties To collect feedback information about BRRI varieties and other technologies 	Mymensingh, Tangail, Norshingdi, Kishorgonj, Gazipur
563	Farmers' Training	<ul style="list-style-type: none"> To update knowledge and skills of farmers on modern rice production technologies To enhance dissemination of new technologies among the farmers. 	SPDP areas
564	Field day	To create awareness and interest among farmers, local leaders, elite persons, NGO workers and DAE personnel about BRRI varieties and technologies	SPDP areas
565	Quality seed production of newly released rice varieties, T. Aman 2015	To produce quality seeds of BRRI released promising rice varieties for conducting adaptive research trials throughout the country during T. Aman season	Gazipur, BRRI farm (West byde)
566	ALART, Hybrid, Boro 2016	<ul style="list-style-type: none"> To evaluate the yield potential and adaptability of advanced breeding lines at farmers' field in different agro-ecological conditions To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE personnel <p>Location: Gazipur, Rajshahi, Rangpur, Barisal, Comilla, Shunamganj, Habiganj, Khulna, Satkhira, Jessore, Sherpur, Gopalganj</p>	
567	ALART, Green Super Rice-Long duration, Boro 2016	<ul style="list-style-type: none"> To evaluate the yield potential and adaptability of advanced breeding lines at farmers' field in different agro-ecological conditions To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE personnel <p>Location: Gazipur, Rajshahi, Rangpur, Barisal, Comilla, Shunamganj, Habiganj, Khulna, Satkhira, Jessore, Sherpur, Gopalganj</p>	
568	ALART, High yielding-Short duration, Boro 2016	<ul style="list-style-type: none"> To evaluate the yield potential and adaptability of advanced breeding lines at farmers' field in different agro-ecological conditions To get feedback information about the advantages and 	

SL No.	Research Title	Objective(s)	Location
		disadvantages of the advanced lines from farmers and DAE personnel Location: Gazipur, Rajshahi, Rangpur, Barisal, Comilla, Shunamganj, Habiganj, Khulna, Satkhira, Jessore, Sherpur, Gopalganj	
569	ALART, Favorable Boro-Short duration, Boro 2016	<ul style="list-style-type: none"> To evaluate the yield potential and adaptability of advanced breeding lines at farmers' field in different agro-ecological conditions To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE personnel Location: Gazipur, Rajshahi, Rangpur, Barisal, Comilla, Shunamganj, Habiganj, Khulna, Satkhira, Jessore, Sherpur, Gopalganj	
570	ALART, Micronutrient enriched-Short duration, Boro 2016	<ul style="list-style-type: none"> To evaluate the yield potential and adaptability of advanced breeding lines at farmers' field in different agro-ecological conditions To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE personnel 	Gazipur, Rajshahi, Rangpur, Barisal, Comilla, Shunamganj, Habiganj, Khulna, Satkhira, Jessore, Sherpur, Gopalganj
571	ALART, Short duration-Comilla, Boro 2016	<ul style="list-style-type: none"> To evaluate the yield potential and adaptability of advanced breeding lines at farmers' field in different agro-ecological conditions To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE personnel 	Gazipur, Feni (Sadar & Dagon-bhuiyan), Comilla (Chandina & Burichang, Chandpur (Haziganj & Kochua, Brahmonbaria (Sadar)
572	SPDP with USG, Boro 2016 under GOB	<ul style="list-style-type: none"> To motivate farmers to produce quality seeds of the BRRI varieties and exchange among other farmers for rapid dissemination of varieties To collect feedback information about BRRI varieties and other technologies Location: Rajbari, Netrokona, Chapai nawabganj, Panchagar, Chittagong, Cox's bazar, Bhola, Khulna, Jessore, Satkhira, Bagerhat.(Two upazilas in each district)	
573	SPDP with USG, Boro 2016 under IAPP	<ul style="list-style-type: none"> To motivate farmers to produce quality seeds of the BRRI varieties and exchange among other farmers for rapid dissemination of varieties. To collect feedback information about BRRI varieties and other technologies 	

SL No.	Research Title	Objective(s)	Location
		Location: Barisal, Jhalokathi, Patuakhali, Borguna, Rangpur, Lalmonirhat, Kurigram, Nilphamari (Two upazilas in each district)	
574	Adaptive trial, Boro, 2016 under IAPP	<ul style="list-style-type: none"> To evaluate the adaptability of BRRI varieties in northern and southern area of Bangladesh and get feedback from the farmers To select location specific suitable varieties and encourage farmers to cultivate the BRRI varieties 	Barisal, Jhalokathi, Patuakhali, Borguna, Rangpur, Lalmonirhat, Kurigram, Nilphamari (Two upazilas in each district)
575	SPDP with USG, Boro, 2016 under MIADP	<ul style="list-style-type: none"> To motivate farmers to produce quality seeds of the BRRI varieties and exchange among other farmers for rapid dissemination of varieties To collect feedback information about BRRI varieties and other technologies <p>Location: Meherpur (Sadar, Mujibnagar & Gangni), Kushtia Sadar, Mirpur, Kumarkhali) Jhenaidah (Sadar, Kotchandpur & Kaligonj), Chuadanga (Sadar, Alamdanga & Damurhuda)</p>	
576	QSPDP, Boro, 2016 under EQSS		Mymensingh, Tangail, Comilla, Narshindi, Kishorgonj, Gazipur. (Two upazilas in each district)
577	Farmers' Training	<ul style="list-style-type: none"> To update knowledge and skills of farmers on modern rice production technologies To enhance dissemination of new technologies among the farmers 	SPDP areas
578	Field day	To create awareness and interest among farmers, local leaders, elite persons, NGO workers and DAE personnel about BRRI varieties and technologies	SPDP areas
579	Quality seed production of newly released rice varieties, Boro 2016	To produce quality seeds of BRRI released promising rice varieties for conducting adaptive research trials throughout the country during Boro season	Gazipur, BRRI farm (West byde)
REGIONAL I STATION (RS), RAJSHAHI			
580	Pest monitoring in BRRI Farm	To study the disease, insects and their natural enemy incidence at BRRI Farm and to create a database to develop forecasting system	Rajshahi
581	Incidence of insect pests and natural enemies in light traps	To study the insect pest and their natural enemy incidence at BRRI farm Rajshahi and to create a database to develop a forecasting system	Rajshahi
582	Survey of rice diseases and insect pests in Rajshahi Region	To find the incidence pattern of major rice diseases and insects in Rajshahi Region and to relate biotic and abiotic factors on their abundance	Rajshahi Region

SL No.	Research Title	Objective(s)	Location
583	Disease and insect pest reaction of BRRI released varieties against major pests	To evaluate level of resistance against major disease and insect pests	Rajshahi
584	Pureline selection among different Swarna varieties adopted in Rajshahi region	<ul style="list-style-type: none"> To purify and maximum possible improvement over the farmers cultivated Swarna varieties To observe and compare the yield performance among Swarna varieties along with BRRI varieties 	Rajshahi
585	Pyramiding major Bacterial Blight resistant genes in susceptible Aman rice variety	To introduce BB resistant genes <i>Xa21</i> , <i>xa13</i> and <i>xa5</i> in the background of Guti Swarna	Rajshahi
586	Integrated approach on rice false smut disease management.	<ul style="list-style-type: none"> To find out effective control measure(s) of the disease To understanding epidemiology of the disease and effect of N on disease progress 	Rajshahi
587	Relationship between gall midge damage and yield loss	To determine the yield loss potential of different rice varieties against gall midge damage	Rajshahi
588	Relationship between stem borer damage and yield loss	To determine the yield loss and recovery abilities of different rice varieties against stem borer damage	Rajshahi
589	Conservation of natural enemies through ecological engineering approaches	To conserve natural enemies through different ecological engineering approaches	Rajshahi
590	Long term effect of different cropping patterns on the agro-economic productivity and soil health	To determine the long-term implications of different intensive cropping patterns on, system productivity, economic return and soil health	Rajshahi
591	Evaluation of crop establishment methods under different tillage and crop residue management options under Rice-Wheat-Mungbean system	To evaluate the productivity and profitability of Rice-Wheat-Mungbean cropping pattern under different tillage residue and weed management options	Rajshahi
592	Farmers' participatory evaluation of different cropping patterns using the short duration crop varieties	<ul style="list-style-type: none"> To evaluate the profitable cropping pattern under farmers field condition To increase cropping intensity using the short duration crop varieties 	Rajshahi
593	Preliminary yield trial (PYT)	Initial yield evaluation of selected materials and other agronomic characteristics in replicated trial	Paba, Godagari and Durgapur
594	Secondary yield trial (SYT)	Confirmation yield potential in replicated trial	Paba, Godagari and Durgapur

SL No.	Research Title	Objective(s)	Location
595	Regional Yield Trial (RYT)	To evaluate specific and general adaptability of the genotypes in on-station condition	Paba, Godagari and Durgapur
596	Regional yield trial (RYT) for rain-fed lowland rice (RLR)	To evaluate specific and general adaptability of the advance breeding lines as compared with standard checks in on-station condition	Rajshahi
597	Regional yield trial for premium quality rice (PQR)	To evaluate specific and general adaptability of the advance breeding lines as compared with standard checks in on-station condition	Rajshahi
598	Regional yield trial for micronutrient enriched rice (MER)	Evaluation specific and general adaptability under on- station condition	Rajshahi
599	Regional yield trial for disease resistance (DR)	Evaluation of the breeding lines for yield potential and adaptability test under different agro-climatic of Bangladesh	Rajshahi
600	Regional yield trial for green super rice (GSR)	To evaluate specific and general adaptability of the genotypes in on-station condition	Rajshahi
601	Proposed variety trial for rain-fed lowland rice (RLR)	On-farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Amgachi, Durgapur, Rajshahi
602	Proposed variety trial for (RLR-Short duration)	On-farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Charghat, Rajshahi
603	Proposed variety trial for premium quality rice (PQR)	On-farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Amgachi, Durgapur, Rajshahi
604	Seed production and distribution program	To distribute newly released BRRI varieties at farmers level of Rajshahi Region	Rajshahi
605	Training and Field days	To train up farmers of Rajshahi Region	Rajshahi Region
REGIONAL I STATION (RS), RANGPUR			
606	Breeder Seed Production	Breeder Seed Production and reservation	Rangpur
607	Demonstration of seed production, dissemination and USG application	Seed production and dissemination Influence the farmer's to cultivate modern varieties	Pirgong upazila , Rangpur
608	Development of high yielding and rainfed Lowland rice	To evaluate specific and general adaptability of the genotypes in on-station condition	Rangpur
609	Adaptive trial of BRRI develop varieties	To evaluate the adaptability of varieties and consent of farmer's about the varieties	Rangpur
610	Adaptive trial of BRRI develop varieties	<ul style="list-style-type: none"> To evaluate the adaptability of varieties and consent of farmer's about the varieties Influence the farmer's to cultivate modern varieties 	Rangpur (Pirganj)
611	Adjustment of seedling age of hybrid rice under variable planting after potato harvest in Rangpur	To find out optimum seedling age of suitable hybrid rice varieties after potato harvest for maximizing grain yield	Rangpur (RS)

SL No.	Research Title	Objective(s)	Location
612	Advanced Line Adaptive Research Trial (ALART) for Bacterial Blight Resistance (BBR)	<ul style="list-style-type: none"> • To evaluate the yield potential and adaptability of advanced breeding lines in respect of bacterial blight resistance at farmers field in different agro-ecological conditions • To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE 	Taragang, Rangpur
613	Advanced Line Adaptive Research Trial (ALART) for Favourable Boro-Short Duration (FB-SD)	<ul style="list-style-type: none"> • To evaluate the yield potential and adaptability of advanced breeding lines in respect of bacterial blight resistance at farmers field in different agro-ecological conditions • To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE 	Pirganj, Rangpur
614	Advanced Line Adaptive Research Trial (ALART) for Flash Flood Submergence (FFS)	<ul style="list-style-type: none"> • To evaluate the yield potential and adaptability of advanced breeding lines in respect of bacterial blight resistance at farmers field in different agro-ecological conditions • To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE 	Gangachara, Rangpur
615	Advanced Line Adaptive Research Trial (ALART) for Green Super Rice-Long Duration (GSR-LD)	<ul style="list-style-type: none"> • To evaluate the yield potential and adaptability of advanced breeding lines in respect of bacterial blight resistance at farmers field in different agro-ecological conditions • To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE 	Pirganj, Rangpur
616	Advanced Line Adaptive Research Trial (ALART) for High Yielding-Short Duration (HY-SD)	<ul style="list-style-type: none"> • To evaluate the yield potential and adaptability of advanced breeding lines in respect of bacterial blight resistance at farmers field in different agro-ecological conditions • To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE 	Pirganj, Rangpur
617	Advanced Line Adaptive Research Trial (ALART) for Hybrid rice	<ul style="list-style-type: none"> • To evaluate the yield potential and adaptability of advanced breeding lines in respect of bacterial blight resistance at farmers field in different agro-ecological conditions • To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE 	Taraganj, Rangpur
618	Advanced Line Adaptive Research Trial (ALART)	<ul style="list-style-type: none"> • To evaluate the yield potential and 	Pirganj, Rangpur

SL No.	Research Title	Objective(s)	Location
	for hybrid rice	adaptability of advanced breeding lines in respect of bacterial blight resistance at farmers field in different agro-ecological conditions • To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE	
619	Advanced Line Adaptive Research Trial (ALART) for Micronutrient Enriched Rice (MER)	• To evaluate the yield potential and adaptability of advanced breeding lines in respect of bacterial blight resistance at farmers field in different agro-ecological conditions • To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE	Taragang, Rangpur
620	Advanced Line Adaptive Research Trial (ALART) for Micronutrient Enriched- Short Duration (ME-SD)	• To evaluate the yield potential and adaptability of advanced breeding lines in respect of bacterial blight resistance at farmers field in different agro-ecological conditions • To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE	Pirganj, Rangpur
621	Advanced Line Adaptive Research Trial (ALART) for Rainfed Low land Rice (RLR)	• To evaluate the yield potential and adaptability of advanced breeding lines in respect of bacterial blight resistance at farmers field in different agro-ecological conditions • To get feedback information about the advantages and disadvantages of the advanced lines from farmers and DAE	Taragang, Rangpur
622	Chemical control of grain spot disease	To find out effective chemicals against grain spotting disease	Rangpur
623	Demonstration of BRRI dhan58 for Boro season in Rangpur region under IAPP project	• To demonstrate the yield performance and adaptability of new varieties • To know the farmer's reaction about new varieties	Rangpur (Badarganj)
624	Demonstration of BRRI Hybrid dhan3 for Boro season in Rangpur region under IAPP project	• To demonstrate the yield performance and adaptability of new varieties • To know the farmer's reaction about new varieties	Rangpur (Horihorpur) Kurigram (Rajarhat) Nilphamari Sadar
625	Demonstration of seed production, dissemination and USG application	Seed production and dissemination Influence the farmer's to cultivate modern varieties	Pirganj & Taragang, Rangpur
626	Effect of high temperature on the productivity of BRRI dhan48 in Rangpur	To find out suitable T. Aus variety that tolerant to high temperature effect during reproductive phase	Rangpur (RS)

SL No.	Research Title	Objective(s)	Location
627	Effect of soil and seedling treatments on false smut disease development	To Know the efficacy of both soil and seedling treatment for controlling false smut disease	Rangpur (RS)
628	Enhancing Quality Seed Supply Project (EQSSP)	Farmer's Training	Rangpur Division
629	Evaluation of BRRI dhan48 as late Boro rice in Potato - Boro - T.Aman cropping system in medium highland irrigated ecosystem	<ul style="list-style-type: none"> • To find out suitability of BRRI dhan48 in late Boro season • To find out appropriate seedling age of rice after potato 	Rangpur
630	Evaluation of BRRI dhan48 as late Boro rice in Potato-Boro-T. Aman cropping system in medium highland irrigated ecosystem	<ul style="list-style-type: none"> • To find out suitability of BRRI dhan48 in late Boro season • To find out appropriate seedling age of rice after potato 	Rangpur
631	Impact and Profitability of Tobacco cultivation in Rangpur region	To know the causes for increasing Tobacco cultivation	Rangpur Sadar, Taragang and Aditmari
632	Introducing improve cropping pattern for increasing cropping intensity and productivity in Rice - Rice system	<ul style="list-style-type: none"> • To increase the cropping intensity and productivity • To improve soil health • To increase the income 	Rangpur
633	Introducing improve cropping pattern for increasing cropping intensity and productivity in Rice-Rice system	<ul style="list-style-type: none"> • To increase the cropping intensity and productivity • To improve soil health • To increase the income 	Rangpur
634	Introducing improve cropping pattern for increasing cropping intensity and productivity in Rice-Rice system	<ul style="list-style-type: none"> • To increase the cropping intensity and productivity • To improve soil health • To increase the income 	Rangpur
635	Introduction of Dry direct seeded rice with varieties performance in Aman season	To increase the productivity	Rangpur
636	Introduction of short duration varieties for early Potato-Rice system	To introduce short duration variety BRRI dhan33, BRRI dhan56, BRRI dhan57 and BRRI dhan62 for early potato production	Rangpur
637	Introduction of submergence tolerance varieties in Boro - T.Aman system season	To introduce submergence tolerance variety BRRI dhan52 in flood prone area	Rangpur

SL No.	Research Title	Objective(s)	Location
638	Long-term effect of three cropped cropping patterns on the agro-economic productivity and soil health	To determine the long-term implications of Potato-Boro -T. Aman, Maize–Mungbean-T. Aman and Boro -T.Aus- T.Aman cropping patterns on the system productivity, economics and soil fertility	Rangpur
639	Long-term effect of three cropped cropping patterns on the agro-economic productivity and soil health	To determine the long-term implications of Potato-Boro -T. Aman, Maize– Mungbean - T. Aman and Boro -T.Aus- T.Aman cropping patterns on the system productivity, economics and soil fertility	Rangpur
640	Long-term effect of three cropped cropping patterns on the agro-economic productivity and soil health	To determine the long-term implications of Potato-Boro -T. Aman, Maize–Mungbean-T. Aman and Boro -T.Aus- T.Aman cropping patterns on the system productivity, economics and soil fertility	Rangpur
641	Performance evaluation of Swarna under different fertilizer combinations	To find out the suitable Swarna cultivar that gave satisfactory grain yield with poor management	Rangpur
642	Performance of hybrid and inbred rice at late planting situation (Braus) after potato harvest in Rangpur	To evaluate the performance of hybrid and inbred rice varieties at late planting situation after potato harvest	Rangpur
643	Performance of hybrid and inbred rice at late planting situation (Braus) after potato harvest in Rangpur	To evaluate the performance of hybrid and inbred rice varieties at late planting situation after potato harvest	Rangpur
644	Proposed Variety Trial (PVT) for Green Super Rice (GSR)	On-farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Taragong, Rangpur
645	Proposed Variety Trial (PVT) for Premium Quality Rice (PQR)	On-farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Taragong, Rangpur
646	Proposed Variety Trial (PVT) for Rainfed Lowland Rice (RLR)	On-farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Taragong, Rangpur
647	Proposed Variety Trial (PVT) for Rainfed Lowland Rice- Short Duration (RLR-SD)	On-farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Taragong, Rangpur
648	Regional yield trial for different types of rice varieties	To evaluate specific and general adaptability of the genotypes in on-station condition	BRRI, Rangpur Farm
649	Seed production and Dissemination (SPDP)	<ul style="list-style-type: none"> Seed Production, reservation and dissemination Influence the farmer's to cultivate modern varieties 	Lakhipur union, Gaibandha

SL No.	Research Title	Objective(s)	Location
650	Validation different hybrid rice varieties of Boro season in Rangpur region under IAPP project	<ul style="list-style-type: none"> To demonstrate the yield performance and adaptability of new varieties To know the farmer's reaction about new varieties 	Rangpur (Gangachara) Kurigram (Durgapur) Nilphamari Sadar
651	Validation of newly released BRRI varieties of Boro season in Rangpur region under IAPP project	<ul style="list-style-type: none"> To demonstrate the yield performance and adaptability of new varieties To know the farmer's reaction about new varieties 	Rangpur (Mithapukur) Kurigram (Nageshory) Nilphamari Sadar
REGIONAL I STATION (RS), COMILLA			
652	Advanced Yield Trial (AYT) (Farmers' Field)	Evaluation of advanced breeding lines in farmers' field for development of variety suitable for Comilla region	Comilla
653	Hybridization	To introgress genes from diverse genetic background for the improvement of standard varieties	Comilla
654	Confirmation of F1	Confirmation of crosses with introgression of genes for earliness, coloured grain, clustered grain, strong stem and long panicle	Comilla
655	Growing of F2 population.	To select progenies with emphasis on earliness, plant type, grain type, no. of effective tiller and high yield potential than the standard varieties	Comilla
656	Pedigree nursery	To select progenies from the segregating populations with emphasis on plant type, earliness, grain type, grain colour, tolerance to lodging and good in phenotype over the standard varieties	Comilla
657	Observational trial (OT)	To select genetically fixed lines with uniform plant height, heading, plant type, and grain type along with high yield potential	Comilla
658	Preliminary Yield Trial (PYT)	Initial yield evaluation and selection of desirable lines compared to standard checks	Comilla
659	Secondary Yield Trial (SYT)	Confirmation of yield evaluation in a replicated trial and selection of desirable lines compared with standard checks	Comilla
660	Advanced Yield Trial (AYT) (Farmers' Field)	Evaluation of advanced breeding lines in farmers' field for development of variety suitable for Comilla region during T. Aman season	Comilla
661	Integrated rice false smut disease management	To find out effective control measure option false smut disease	Comilla
662	Evaluation of advanced breeding lines against Tungro disease in BRRI Comilla farm, T. Aman, 2015	To check the resistance to tungro disease in Bangladesh condition	Comilla
663	Reaction and recoverability of latest T.Aman BRRI varieties to tungro disease under natural condition	To know the varietal performance against rice tungro disease	Comilla

SL No.	Research Title	Objective(s)	Location
664	Agro-economic evaluation of cropping patterns for medium high land and their impact on soil health	To identify agro-economically profitable cropping patterns for medium high land in Comilla region	Comilla
665	Evaluation of Rice –Fish culture in low land in Comilla region	To evaluate agro-economic profitability of rice-fish culture and increase total productivity of the low land areas	Comilla
666	Evaluation of RCM in farmers' field	To determine the performance of an RCM recommendation relative to a farmer's current practice in a farmer's fields	Comilla
667	Study on herbicide tolerance of BRRI released varieties	To find out the phytotoxic effect of herbicide on different BRRI released varieties and its consequences on yield	
668	Evaluation of BRRI varieties as braush / Aus (Observational trial)	To find out the potentiality of BRRI varieties as braush/aus	Comilla
669	Effect of Foliar Application of Silicon on Yield and Quality of Rice in Different Seasons of Bangladesh	To evaluate the effect of foliar application of silicon on yield and quality of rice	Comilla
670	Effect of spacing and seedling number on growth and yield of BRRI dhan69.	To increase yield of BRRI dhan69 by adjusting spacing and seedling number	Comilla
671	Effect of potassium on the culm strength of BRRI dhan32.	To increase lodging resistance of BRRI dhan32	Comilla
672	Stability Analysis of BRRI Released Aman Varieties	To determine the stability index	Comilla
673	Demonstration and dissemination of newly released varieties	To demonstrate and disseminate BRRI developed variety-BRRI dhan48 in greater Comilla region during T .Aus season	Comilla
674	F ₁ confirmation	Confirmation of crosses for long slender grain, strong stem, heavy panicle and earliness	Comilla
675	F ₂ population	To select progenies with emphasis on short-medium growth duration, Strong plant type, long to medium slender grain type, high capacity to produce effective tiller	Comilla
676	Pedigree Nursery ((F ₃ -F ₆))	Selection will be done for earliness, plant type, grain colour and type	Comilla
677	Observational Trial	Materials will be selected as superior to check for desirable plant type, homogeneity in flowering and overall phenotypic acceptance in the field condition	Comilla
678	Preliminary Yield Trial	Initial evaluation of yield and other agronomic traits as compared with standard checks	Comilla

SL No.	Research Title	Objective(s)	Location
679	Secondary Yield Trial	Confirmation of yield and other agronomic traits as compared with standard checks	Comilla
680	Effect of time of planting on growth and yield of some BRRI dhan62 in Boro season.	To determine suitable time of planting and photoperiod sensitivity of the varieties	Comilla
681	Updating fertilizer doses through SSNM (Side Specific Nutrient Management) for BRRI released varieties	To determine the optimum doses of N, P, K, S and Zn for ALART materials / newly released varieties	Comilla
682	Long-term effects of some macro and micronutrients on yield and nutrition of upland rice	Determine nutrient deficiency problems in soil through missing elements techniques	Comilla
683	Nutrient management for growing four crops in a year	To increase the cropping intensity in Bangladesh	Comilla
REGIONAL I STATION (RS), KHUSTIA			
684	Determination of suitable time for application of supplemental irrigation in T. Aman	To determine the relationship between perched water tables depletion during critical stages of rice and grain yield	Kushtia
685	Proposed Variety Trial (PVT) - Premium Quality Rice (PQR)	On-Farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Kushtia
686	Proposed Variety Trial (PVT) -(RLR-Short Duration)	On-Farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Kushtia
687	Proposed Variety Trial (PVT) -Green Super Rice (GSR)	On-Farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Kushtia
688	Proposed Variety Trial (PVT) -Rainfed Lowland Rice (RLR)	On-Farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Kushtia
689	Regional Yield Trial (RYT)	To evaluate specific and general adaptability of the genotypes in on-station condition	Kushtia
690	Regional Yield Trial # Green Super Rice (GSR)	To evaluate specific and general adaptability of the genotypes in on-station condition	Kushtia
691	Regional Yield Trial (RYT)# Disease Resistance (DR)	Evaluation of the breeding lines for yield potential and adaptability test under different agro-climatic conditions of Bangladesh	Kushtia
692	Regional Yield Trial (RYT)# Micronutrient Enriched Rice (MN)	Evaluation specific and general adaptability under on-station condition	Kushtia
693	Regional Yield Trial (RYT)# Premium Quality Rice (PQR)	To evaluate specific and general adaptability of the advance breeding lines as compared with standard checks in on-station condition	Kushtia

SL No.	Research Title	Objective(s)	Location
694	Regional Yield Trial (RYT)# Rainfed Lowland Rice (RLR)	To evaluate specific and general adaptability of the advance breeding lines as compared with standard checks in on-station condition	Kushtia
695	Regional Yield Trial (RYT), Cold Tolerant Rice	Evaluation of genotypes for specific and general adaptability	Kushtia
696	Regional Yield Trial (RYT), Development of Favorable Boro Rice	Evaluation of genotypes for specific and general adaptability	Kushtia
697	Regional Yield Trial (RYT), Development of Insect Resistant Rice, Boro, 2015-16	To evaluate the genotypes for specific and general adaptability in different regions	Kushtia
698	Regional Yield Trial (RYT), Micronutrient Enriched Rice (MN) Boro 2015-16	Evaluation of genotypes for specific and general adaptability	Kushtia
699	Regional Yield Trial (RYT-1) for short duration	To evaluate specific and general adaptability of the genotypes in on-station condition	Kushtia
700	Regional Yield Trial (RYT-2) for long duration	To evaluate specific and general adaptability of the genotypes in on-station condition	Kushtia
701	Stability Analysis of BRRI Varieties	To maintain season, year and location-wise data base on the yield performance of BRRI varieties	Kushtia
702	Terminal drought mitigation through integrated approaches in T.Aman cultivation	To determine drought severity and its probability at different growth stages of T. Aman	Kushtia
703	Validation of four crop based cropping pattern in irrigated ecosystem in Kushtia region	Four crop based cropping pattern with newly released varieties needs validation	Kushtia
REGIONAL I STATION (RS), SONAGAZI			
704	Long-term missing element trial at BRRI, Sonagazi	To determine nutrient mining problem on soil fertility and its influence on rice yield	Feni
705	Evaluation of soil management packages for rice production in char land ecosystem	To identify the proper soil management packages through organic and inorganic amendments in char land ecosystem	Feni
706	Soil salinity assessment at BRRI Sonagazi farm soil	To quantify the salinity level in Sonagazi farm soil during the month of January to April	Feni
707	Nutrient management for rice in hilly areas	To increase the productivity of rice in hilly areas through fertilizer management	Rangamati
708	Validation of T. Aman yield in Sonagazi char land ecosystem through direct seeding method	To increase the productivity of Aman rice in char land ecosystem using HYV Aman rice varieties	Feni

SL No.	Research Title	Objective(s)	Location
709	Survey on the use of BRRI varieties for puffed and flattened rice in south-eastern parts of Bangladesh	To know the use of BRRI varieties for puffed and flattened rice in south - eastern parts of Bangladesh	Feni
710	Effect of different planting methods on the growth and yield of Aus rice	To find out the suitable planting method for maximizing yield in the coastal region of Bangladesh	Feni
711	Validation on yield of BRRI Aus rice varieties in hilly areas	To increase the productivity of Aus rice in hilly areas using HYV Aus rice varieties	Rangamati and Khagrachari
712	Farmers' training / Field day	To train up farmers on updated modern rice cultivation technologies and to encourage them to adopt modern rice varieties	Feni
713	Seed Production and Dissemination Program	To disseminate of BRRI seed among the farmers	Feni
REGIONAL I STATION (RS), SATKHIRA			
714	Effect of time of planting on growth and yield of Boro rice under saline environment	To find out suitable planting time of Boro rice in saline condition	Satkhira Sadar (Farmers Field)
715	Effect of time of planting on growth and yield of T. Aman rice under saline	To find out suitable planting time of T. Aman rice in saline condition	Satkhira Sadar (Farmers Field)
716	Effect of Zinc (Zn) Priming on rice seedling under saline condition	To expedite salinity tolerance level of rice genotype	Satkhira Sadar (Farmers Field)
717	Determination of nutrient requirements for Boro rice in gher areas	To find out optimum fertilizer management option for Boro rice in gher areas	Satkhira Sadar (Farmers Field)
718	Evaluation of different tillage in gher areas	To know possibility of zero tillage in Boro rice cultivation in gher areas	Satkhira Sadar (Farmers Field)
719	Validation of Boro rice varieties for gher areas	<ul style="list-style-type: none"> • To identify suitable HYV Boro Varieties for saline gher areas • To identify suitable HYV Boro Varieties for nonsaline gher areas 	Satkhira Sadar (Farmers Field)
720	Seedling priming to save seedlings from salinity effect in T. Aman season	To reduce salinity affect in saline areas	Farmer's field at Satkhira Sadar
721	Evaluation of different cropping patterns in saline area of southern coastal region	<ul style="list-style-type: none"> • To evaluate different cropping pattern • To increase total productivity by introducing alternate cropping pattern 	Satkhira Sadar (Farmers Field)
722	Crossing between Dhani and BRRI dhan28	To determine the cause of high yield in double transplanting	Shamnagar and on station
723	Determination of cause of high yield in double transplanting	To determine the cause of high yield in double transplanting	on station

SL No.	Research Title	Objective(s)	Location
724	Determination of effect of rice seedling date, seedling age and rice growth duration on yield	To identify suitable seeding date and seedling age for boro rice in southern region	on station
725	Seed Production and demonstration program (SPDP)	<ul style="list-style-type: none"> To disseminate newly BRRI Technologies To provide quality seeds To fulfill local farmers' demand 	Satkhira, Jessore, Khulna and Bagerhat (Farmers Field)
726	Program on Development of Salt Tolerant Rice Variety (STRASA Project)	<ul style="list-style-type: none"> To improve the farmer's knowledge and skill on rice production technologies To create farmer's awareness enhancing the dissemination of BRRI developed technologies 	Ashashuni and Debhata, Satkhira (Farmers Field) and on station
727	Field day	<ul style="list-style-type: none"> To make a mass gathering of famers, local leaders, elite persons, NGO workers and DAE personnels To demonstrate the field performance of BRRI technologies and create confidence of the participants To get feedback information about BRRI technologies 	Satkhira, Jessore, Khulna and Bagerhat (Farmers Field)
728	TLS seed production of BRRI released promising varieties	<ul style="list-style-type: none"> To produce quality seeds of BRRI released promising varieties To make available and meet up the seed demand of farmer's under Khulna and Jessore region 	on station
REGIONAL I STATION (RS), HABIGANJ			
729	Advanced line Adaptive Research trial (ALART) for PQR, Micronutrient, Short duration and cold tolerant	To evaluate the yield potential and adaptability of advanced breeding lines at famers' field indifferent agro-ecological conditions	Sylhet (Farmers Field)
730	Secondary Yield Trial (SYT)#1	To evaluate promising genotypes in natural shallow flooded condition	Habiganj
731	Observational Trial	Verification of yield and other agronomic characters of advanced lines with growth duration close to BRRI dhan28	Habiganj
732	Secondary Yield Trial (SYT)#2	To evaluate promising genotypes in natural shallow flooded condition	Habiganj
733	Hybridization	To develop high yielding boro rice with growth duration close to BRRI dhan28 for early flood prone haor areas	Habiganj
734	Secondary Yield Trial	To evaluate selected inbred lines under direct wet seeded conditions	Habiganj
735	Demonstration of newly released Boro varieties	To demonstrate the performance of newly released BRRI rice varieties to the farmers	Sylhet (On –Farm)

SL No.	Research Title	Objective(s)	Location
736	Observational Trial (OT)	To evaluate yield and ancillary characters of advanced lines in shallow flooded condition	Habiganj
737	Secondary Yield Trial (SYT)#2	Verification of yield and other agronomic characters of fixed lines for haor areas with growth duration close to BRRI dhan28	Habiganj
738	Evaluation of rice varieties/lines tolerant to heat during flowering stage	To select best heat tolerant materials under high temperature	Habiganj
739	Secondary Yield Trial (SYT)#1	Verification of yield and other agronomic characters of advanced lines with growth duration close to BRRI dhan28	Habiganj
740	Growing of F3 Generation,	To develop early high yielding boro rice for early flood prone haor areas	Habiganj
741	PVS trial for evaluation selected lines/ genotypes under water saving aerobic condition	To identify varieties/lines suitable for water saving direct seeding conditions	Gazipur, Rajshahi and Habiganj
742	Preliminary Yield Trial (PYT) #1, High Yield,	To select early high yield boro rice varieties for early flood prone haor areas	Habiganj
743	Preliminary Yield Trial	To evaluate selected inbred lines under direct wet seeded conditions	Habiganj
744	Improvement of rice under direct wet seeding condition	To select improved rice varieties/ genotypes having high yield, shorter growth duration for growing under direct wet seeding puddle soil condition	Habiganj
745	Regional Yield Trial	To develop high yielding boro rice with growth duration close to BRRI dhan28 for early flood prone haor areas.	Habiganj
746	Preliminary Yield Trial (PYT) #2, High Yield	To develop early boro rice with growth duration close to BRRI dhan28 for early flood prone haor areas	Habiganj
747	Evaluation selected lines/genotypes under direct wet seeding condition	To evaluate selected inbred lines under direct wet seeded conditions	Habiganj
748	Hybridization of Deepwater Rice, 2015-16	To develop high yielding Deep water for haor areas	Habiganj
749	Evaluation of High Yielding and Short Duration Materials	To select farmer's preferred varieties/lines having shorter growth duration (130-145 days) and higher yield during boro season	Habiganj and Rangpur
750	Evaluation of short lines under direct wet seeding condition	To evaluate short duration inbred lines under direct wet seeded conditions areas	Habiganj
751	Evaluation of selected lines/genotypes under water saving aerobic condition	To identify varieties/lines suitable for water saving direct seeding conditions	Gazipur

SL No.	Research Title	Objective(s)	Location
752	Advance Yield Trial (AYT)	To select high yielding deepwater aman rice lines incorporating genes for high yield into intermediate tall plant type - adaptable to shallow flooded haor areas	Habiganj
753	Performance of Boro rice under different time of transplanting in haor region	To find out the optimum time of transplanting of BRRI dhan28 and BRRI dhan29 for haor areas	Habiganj
754	Root and shoot growth studies of selected aerobic rice genotypes	To identify varieties/lines with deep root system for survival under water stress aerobic conditions	Habiganj
755	Demonstration of Wet-Direct seeding crop establishment technique	To reduce irrigation cost and to save irrigation water during transplanting	Habiganj (On-Farm)
756	Physico-chemical properties of soil profiles of BRRI Habiganj farm	To determine the soil physical properties of rice soil profiles of Habiganj farm	Habiganj
757	Long-term missing element trial for single rice area (Old prog.)	To identify the yield limiting nutrient element in that area and to maintain soil fertility	Habiganj
758	Survey and diagnosis of nutrient deficiencies and toxicities in rice soils at Sylhet region	To identify the nutrient deficiencies or toxicities in rice soils at farmers level	Sylhet Region
759	Effect of INM practices at farmers' field for increasing rice yield	To increase rice yield at farmers level and to maintain soil fertility	Habiganj (On-farm)
760	Fertilizer management for newly released rice varieties in haor and upland areas of Sylhet region	To develop nutrient management practices for newly release BRRI varieties suitable for this region	Habiganj
761	Yield maximization through INM practices in haor area	To increase rice yield in single cropped area through INM practices	Habiganj
762	Effect of liming on Boro rice yield in Sylhet region	To increase rice yield with liming	Habiganj
763	Effect of Vermicompost for Increasing Rice Yield	To increase rice yield in Aman season	Habiganj
764	System productivity increase through rice-duck farming (T. Aman Season)	To increase total productivity - maintaining soil fertility of the rice field and reduction cost of management practices (weeding and pesticide)	Habiganj
765	Rice fish culture in low-land area for increasing farm productivity (T. Aman Season)	<ul style="list-style-type: none"> To increase total productivity in experimental field To compare the yield of fish cultured rice with mono cultured rice 	Habiganj
766	Demonstration of newly released Aus varieties	To demonstrate the performance of newly released Aus varieties to the farmers.	Sylhet (On-Farm)

SL No.	Research Title	Objective(s)	Location
767	Demonstration and Seed Production of Local Boro Rice Varieties	To demonstrate and seed production of local boro rice varieties	Habiganj
768	Demonstration of newly released varieties for T. aman	To demonstrate the performance of newly released aman varieties to the farmers	Sylhet Region
769	Validation of Double Transplanting Method in haor areas (Boro)	To increase rice yield and to avoid risk from early flash flood	Habiganj
770	Productivity Increase through Intensive rice culture (Aus, Aman & Boro)	To increase cropping intensity and farm productivity	Habiganj
771	Evaluation of short duration IRRI lines under direct wet seeding condition	To evaluate IRRI short duration inbred lines under direct wet seeded conditions	Habiganj
772	Farmers' training and Field day (Boro, Aman and Aus session)	To deliver the knowledge about the modern rice cultivation techniques to farmers	Sylhet Region
773	Demonstration and Seed Production of Local Deepwater Rice Varieties	To demonstrate and seed production of local deep water varieties	Habiganj

REGIONAL STATION, BHANGA

774	Breeding for shallow flooded Deep water rice (Hybridization)	Generation of improved genotypes in combination with slow elongation and high yield for shallow flooded deep water sub-ecosystem (flood water depth 0.5-1.25 m).	Gazipur
775	Breeding for developing high yielding rice varieties for single Boro cropping pattern (Hybridization)	To develop breeding population with higher yield potential, tall plant along with earliness and acceptable grain quality for single Boro cropping pattern of Faridpur region	Gazipur
776	Scaling up BRRI released Aus varieties in Faridpur region	<ul style="list-style-type: none"> To expedite the adoption of modern Aus varieties for higher yield, To get the feed-back about the varieties. 	Faridpur region
777	Regional Yield Trial (RYT)-1, Aus 2015 Regional Yield Trial (RYT)-2, Aus 2015	Evaluation of the breeding lines for yield potential and adaptability test under different agro-climatic conditions of Bangladesh.	Bhanga
778	Evaluation of Aman establishment time as relay cropping with jute in Wheat-Jute-Relay Aman cropping pattern in shallow deep water rice ecosystem	To increase the total productivity of the Wheat-Jute/Aman (Relay) cropping pattern	Bhanga, Faridpur
779	Regional Yield Trial (RYT)# Micronutrient	To evaluate specific and general adaptability of the advance breeding lines.	Bhanga

SL No.	Research Title	Objective(s)	Location
	Enriched Rice (MN) [RYT-1 (LS grain), RYT-2 (SB grain), RYT-3 (K.bhog grain)], T. Aman, 2015		
780	Regional Yield Trial, Deepwater Aman, 2015	To select high yielding deepwater aman rice lines incorporating genes for high yield into intermediate tall plant type- adaptable to shallow flooded haor areas during wet season	Khandarpar, Muksudpur, Bhanga
781	Stability analysis of BRRI varieties, T. Aman, 2015	To assess the performance of different BRRI varieties	Bhanga
782	Demonstration of modern rice varieties in Aman and Boro seasons in greater Faridpur region	To demonstrate new rice varieties in the farmers field.	Faridpur, Gopalganj, Madaripur, Rajbari, Shariatpur
783	Regional Yield Trial, Development of Favorable Boro Rice, Boro 2015-16 Regional Yield Trial, Micronutrient Enriched Rice, Boro 2015-16 Regional Yield Trial, Cold Tolerant Rice, Boro 2015-16 Regional Yield Trial, Premium Quality Rice, Boro 2015-16	Evaluation of genotypes for specific and general adaptability	Bhanga
784	Regional Yield Trial (RYT-1) for short duration, Boro 2015-16 Regional Yield Trial (RYT-2) for long duration, Boro 2015-16	To evaluate specific and general adaptability of the genotypes in on-station condition	Bhanga
785	Stability analysis of BRRI varieties, Boro 2015-16	To assess the performance of different BRRI varieties	Bhanga
786	Adaptive trial of slow elongating deepwater cultivars at Gopalganj, Aman 2015	Yield evaluation of slow elongating deepwater cultivars under shallow flooded condition (up to 1.25m) of Gopalganj district	Gopalganj
787	Advanced yield trial of salinity tolerant lines at Bagerhat, T. Aman 2015 and Boro 2015-16	To evaluate genotypes for advanced yield trial in slightly saline condition of Bagerhat district	Bagerhat

REGIONAL STATION, BARISAL

788	Development of Multi-trait Advance Breeding Lines for Tidal Areas	To develop varieties of tall seedling(60 cm) and intermediate plant type (120-150cm), strong culm adaptable to tidal water pressure, salinity tolerant, efficient photosynthesis (early November flowering), low input efficient and high yield	Barisal
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SL No.	Research Title	Objective(s)	Location
789	Improvement of T. Aus Rice for Adapted to Barisal Region	<ul style="list-style-type: none"> • Collection of local germplasm and selection of potential parent for varietal development • To develop high yielding T. Aus varieties adaptable to Barisal region 	Barisal
790	Development of Varieties for Tidal Submergence T. Aman Rice	To develop high yielding varieties adaptable to tidal non- saline condition in the southern districts	Barisal
791	Survey and Monitoring of Rice Diseases (Continuous) and incidence of rice insect pests and their natural enemies in light traps in relation to climate change	<ul style="list-style-type: none"> • To determine the incidence of diseases at BRRI farm and in different AEZs for better management of rice pests • To study the pests and their natural enemies incidence pattern in light trap and to create a database 	Barisal
792	Screening of rice germplasms and breeding for Ufra resistance	To identify ufra resistant sources from local germplasms and evaluation of resistant materials	Barisal
793	Demonstration of blast disease management of rice at farmers' field of Barisal Region	Enhancement of rice yield through blast disease management practices	Barisal
794	Integrated approach on rice false smut disease management, T. Aman 2015	<ul style="list-style-type: none"> • To find out effective control measure option(s) of the disease • To understand epidemiology of the disease • To observe effect of N on disease progress 	Barisal
795	Demonstration, seed production and scaling up of MVas rice in Barisal region	<ul style="list-style-type: none"> • To demonstrate the yield performance and suitability of modern rice varieties in Barisal region • To popularize the BRRI released rice varieties and other technologies 	Barisal
796	Training and Field Days	To train up farmers of Barisal Region	Barisal
797	Long term fertilizer trials	To investigate the long term effect on rice cultivation	Barisal
798	Assessment of suitable water resources availability for irrigation to increase crop production in tidal areas of Barisal region	<ul style="list-style-type: none"> • To monitor the dynamics of surface water salinity in the dry season at different locations of Barisal region • To assess the suitability of water for irrigated crop cultivation. • To assess the availability of water and potentials for irrigated crop cultivation • To assess the constraints and prospects of tidal water utilization for crop production. 	Barisal
799	Proposed Variety Trial (PVT) for Green Super Rice (GSR)	On-farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Barisal sadar
800	Proposed Variety Trial (PVT) for Premium Quality Rice (PQR)	On-farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Barisal sadar

SL No.	Research Title	Objective(s)	Location
801	Proposed Variety Trial (PVT) for Salinity and submergence (4 locations)	On-farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Barisal, Patuakhali, Barguna and Bagerhat
802	Proposed Variety Trial (PVT) for tidal submergence (9 locations)	On-farm evaluation of proposed line by the NSB team for the recommendation of release as a new variety	Barisal, Jhalokhathi, Patuakhali, Barguna
803	Regional yield trial for different types of rice varieties	To evaluate specific and general adaptability of the genotypes in on-station condition	Barisal
804	Seed production and Dissemination (SPDP)	Seed Production, reservation and dissemination Influence the farmer's to cultivate modern varieties	Barisal, Jhalokhathi
805	Validation different hybrid rice varieties of Aman and Boro season in Barisal region under IAPP project	<ul style="list-style-type: none"> • To demonstrate the yield performance and adaptability of new varieties • To know the farmer's reaction about new varieties 	Barisal
806	Block demonstration of newly released BRRI varieties of Aman and Boro season in barisal region under IAPP project	<ul style="list-style-type: none"> • To demonstrate the yield performance and adaptability of new varieties • To know the farmer's reaction about new varieties 	Barisal, Jhalokhathi, Patuakhali, Barguna
807	Block demonstration of newly released BRRI varieties of Aman and Boro season in pirojpur region under PGB project	<ul style="list-style-type: none"> • To demonstrate the yield performance and adaptability of new varieties • To know the farmer's reaction about new varieties 	Barisal, Jhalokhathi, Patuakhali, Barguna

BANGLADESH JUTE RESEARCH INSTITUTE

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JUTE AND ALLIED FIBRE CROPS

Sl No.	Research Title	Objective(s)	Location
1	On farm yield trial of advanced line of white jute	To evaluate the yield and adaptability of different advanced lines at farmers field in different regions as well as on stations	Manikganj (Central Station), Rangpur, Kishoreganj, Faridpur and Chandina (Regional Station)
2	Zonal yield trial of high yielding breeding lines of white jute	Possibility of deriving new varieties with higher yield	Manikganj, Faridpur, Rangpur, Kishoreganj, Chandina
3	Zonal yield trial of some salt tolerance advance lines of white jute	Different AEZ evaluation their performance	Kalapara, Patuakhali, Banarpota, Satkhira
4	Advanced yield trial of early seeding, higher yield and low temperature tolerant breeding lines of white jute	Breeding lines with better performance in respect of early seeding and yield	JAES, Manikganj
5	Preliminary yield trial of high yielding white jute strains	Breeding lines with distinct character, higher yield and quality fibre	Manikganj, Rangpur, Faridpur, Kishoreganj and Chandina
6	Evaluation of some high yielding salt tolerant white jute line in coastal region of Bangladesh	To develop high yielding salt tolerant jute varieties 21 cross combination	Kalapara, Patuakhali, Banarpota, Satkhira
7	Screening of germplasm for tolerant to drought of jute	To study of drought tolerant lines with high yield	Kaligonj, Lalmonirhat
8	Evaluation of advanced lines of white jute for higher yield	Possibility of deriving lines with higher yield than the existing cultivars	JAES, Manikganj
9	Study and selection of different desirable lines for high yield	High yielding desirable lines selection	JAES, Manikganj and green house premises, Dhaka

Sl No.	Research Title	Objective(s)	Location
10	Hybridization among the selected breeding lines of white jute	To accumulate desirable genes from diverse parents	JAES, Manikganj
11	Selection of indigenous and exotic germplasm of white jute for short day and low temperature tolerance	Identification of short day and low temperature tolerant lines	JAES, Manikganj
12	Maintenance of nucleus seed stock of white jute	To maintain genetic composition of the varieties	JAES, Manikganj
13	Maintenance of advanced lines of white jute	To maintain true breed parents	JAES, Manikganj
14	On farm yield trial of an advanced line of tossa jute	To evaluate the yield and adaptability of different advanced lines at farmer's field in different regions as well as on stations	Manikganj, Chandina, Rangpur, Kishoreganj, Monirampur and Dinajpur
15	Advanced yield trial of two breeding lines of tossa jute	To develop early sowing tossa jute	Manikganj, Chandina, Rangpur, Kishoreganj, Monirampur and Dinajpur
16	Preliminary yield trial of promising lines of tossa jute	Identification of lines are better than the control	JAES, Manikganj, Faridpur, Kishoreganj and Rangpur
17	Anatomical studies in relation to fibre compactness of some promising lines of tossa jute	To identification of higher fibre content germplasm	JAES, Manikganj
18	Hybridization among the selected genotypes of tossa jute	To isolate of desirable progeny	Greenhouse Premises BJRI, Dhaka
19	Confirmation of F ₁ s	Identification of desirable F ₁ plants	Green house, BJRI and JAES, Manikganj
20	Screening of germplasm for tolerant to salinity of tossa jute	To isolate desirable salinity tolerant lines	Bannarpota, Satkhira
21	Screening of germplasm for higher fibre yield and desirable traits of tossa jute	To selection of superior progeny with desired characters	JAES, Manikganj and Centrall station, Dhaka

Sl No.	Research Title	Objective(s)	Location
22	Screening germplasm lines of tossa jute against water logging tolerance	To isolate of desirable water logging tolerant lines	Central Station, Dhaka and Tarabo
23	Evaluation of segregating lines of tossa jute	Selection of plants from different segregating lines and maintenance of seeds in future program	Central Station, Dhaka, JAES, Manikganj
24	Maintenance of nucleus seed stock of tossa jute	To maintain distinctness, uniformity and stability of the varieties	JAES, Manikganj, Monirampur and Dinajpur
25	Maintenance of parents of tossa jute	To maintain different strains Location: JAES, Manikganj and Central station, Dhaka and Monirampur	
26	On farm yield trial of new breeding line of Kenaf 1641/C	To rapid growth and high biomass per unit area. Location: Manikganj, Faridpur, Rangpur, Chandina, Kishoreganj, Monirampur, Dinajpur, Patuakhali and Tarabo	
27	On farm yield trial of new breeding line of smooth Mesta SAMU'93	Smooth plants for easy handling at harvest and high biomass in poor land Location: Manikganj, Faridpur, Kishoreganj, Rangpur, Chandina, Monirampur, Dinajpur and Patuakhali	
28	Preliminary yield trial of smooth Mesta strains	To develop early maturing Mesta lines having smooth plants and more biomass per unit area in comparison to recommended cultivar	Manikganj
29	Zonal yield trial of early maturing Kenaf	Development of Kenaf varieties with short field duration coupled with more biomass Location: Manikganj, Rangpur, Faridpur, Kishoreganj, Chandina, Monirampur, Patuakhali	
30	Zonal yield trial of high yielding vegetable Mesta (<i>H. sabdariffa</i> L.)	To development of vegetable Mesta varieties with containing higher amount of edible delicious leaves with foliaceous smooth calyces fruit	Manikganj, Faridpur, Kishoreganj Patuakhali
31	Hybridization among the selected genotypes of Kenaf and Mesta	To isolate desirable progeny	Green house premises, BJRI, Dhaka
32	Screening of Kenaf and Mesta genetic resources for stress tolerance	To isolate potential parental materials will be selected for breeding program	Manikganj
33	Evaluation of segregating lines of Kenaf and Mesta	Selection of plants from different segregating lines and maintenance of seeds in future program	Dhaka and Manikganj
34	Anatomical studies in relation to fibre compactness of preliminary lines of Kenaf and Mesta	Fibre compactness of different advanced lines of Kenaf and Mesta for fibre yield and quality	Manikganj

SI No.	Research Title	Objective(s)	Location
35	Maintenance of nucleus seed stock of Kenaf and Mesta	To maintain the distinctness, uniformity and stability of the varieties	Manikganj, Rangpur, Monirampur, Patuakhali
36	Maintenance of parents of Kenaf and Mesta	To maintain different strains	Dhaka and Manikganj

GENETIC RESOURCES AND SEED DIVISION

37	Characterization of deshi white jute (<i>Corchorus capsularis</i>) germplasm collected from different sources	To evaluate morpho-agronomic attributes and, disease and pest status of jute, kenaf and mesta germplasm	JAES, Manikganj and Pakhimara, Patuakhali
38	Characterization of tossa jute (<i>Corchorus olitorius</i>) germplasm collected from different sources	To evaluate morpho-agronomic attributes and, disease and pest status of jute, kenaf and mesta germplasm	JAES, Manikganj and Pakhimara, Patuakhali
39	Characterization of mesta (<i>Hibiscus sabdariffa</i>) germplasm collected from different sources	to evaluate the desired genotypes for utilization in mesta breeding programme	JAES, Manikganj and Chandina
40	Characterization of kenaf (<i>H. cannabinus</i>) germplasm collected from different sources	To identify better accessions compared with the check varieties.	JAES, Manikganj and Kishoreganj
41	Evaluation of some selected deshi jute (<i>Corchorus capsularis</i>) germplasm collected from different sources	To evaluation and documentation of <i>Corchorus capsularis</i> germplasm for utilization in genetic improvement programme	JAES, Manikganj and Kishoreganj
42	Evaluation of some selected tossa jute (<i>Corchorus olitorius</i>) germplasm collected from different sources	To evaluation and documentation of <i>Corchorus olitorius</i> germplasm for utilization in genetic improvement programme	JAES, Manikganj and Kishoreganj
43	Evaluation of some selected kenaf (<i>Hibiscus cannabinus</i>) germplasm collected from different sources	To evaluation and documentation of kenaf (<i>Hibiscus cannabinus</i>) germplasm for utilization in genetic improvement programme	JAES, Manikganj and Jessore
44	Regeneration of <i>Corchorus</i> and <i>Hibiscus</i> germplasm for conservation	To get more quality seeds with higher percentage of germination for storage and future utilization	Dhaka, Manikganj, Jessore and Dinajpur
45	Monitoring the viability of jute, kenaf and mesta germplasm conserved in short and long term condition and their maintenance	To establish the differences of germination percent between initial germination stage and present germination condition	Gene Bank, BJRI, Dhaka

SI No.	Research Title	Objective(s)	Location
46	Development of genetic transformation protocol of <i>Corchorus capsularis</i> for its improvement	To introduce genes in jute against other important agronomic traits	Genetic Resources and Seed Division, BJRI, Dhaka
47	Optimization of genetic transformation protocol from the explants of kenaf	Introducing desirable genes with important agronomic traits	Genetic Resources Seed, Division, BJRI, Dhaka
48	Molecular characterization of jute and allied fibre germplasm through DNA fingerprinting	To establish of molecular characterization protocol	Genetic Resources and Seed Division, BJRI, Dhaka
49	Evaluation of kenaf germplasm through RAPD /SSR marker	To characterized kenaf germplasm at molecular level using molecular marker	Genetic Resources and Seed Division, BJRI, Dhaka
50	Screening of Jute Germplasm for Salt Tolerance in Ms Medium and Field Condition Using Physiological and Biochemical Parameters	To identify salinity tolerant jute genotypes	GRSD, BJRI and salinity areas in Satkhira and Patuakhali district
51	Production of breeders seed of deshi jute, tossa jute and kenaf	To produce quality seeds of jute and kenaf every year and supplying to end user (BADC, NGO).	Manikganj, Rangpur, Faridpur, Kish organj, Chandina, Monirampur, Nasipur and Tarabo
52	Preliminary yield trial of kenaf breeding lines	To asses yield performance and other attributes of four breeding lines of kenaf under different AEZ	Dhaka, Manikganj, Rangpur & Monirampur
53	Production of nucleus seed stock of jute and kenaf	To produce nucleus seed that will be used for breeder seed production in next cropping season	Manikganj, Monirampur and Nasipur

AGRONOMY DIVISION

54	Effect of sowing date on fibre yield and yield attributes of advanced breeding line OM-1GM1 (BLG) of tossa jute	To ascertain optimum time of sowing for higher fibre yield	JAES, Manikganj, RS, Rangpur, RS, Kishoreganj, SS, Jessore and SS, Patuakhali
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SI No.	Research Title	Objective(s)	Location
55	Effect of sowing date on fibre yield and yield attributes of advanced breeding line 1641/C (KE-3) of Kenaf	To ascertain optimum time of sowing for higher fibre yield Location: JAES, Manikganj, RS, Rangpur, RS, Kishoreganj, SS, Jessore and SS, Patuakhali	
56	Cost effective jute cultivation by manipulating weeding and herbicide management	To produce jute on a cost effective manner through manipulating weeding and herbicide	JAES, Manikganj
57	Study the effect of weedicides trial for cultivation of jute crop in field condition	To reduce the management cost Location: JAES, Manikganj, RS, Chandina, Comilla, SS, Jessore, SS, Dinajpur at jute fibre production season	
58	Seed yield and yield contributing characters of advanced breeding line of tossa jute O-3820 as influenced by different date of sowing at late season	To feasible of producing seed of advanced breeding line of tossa jute in late season	JAES, Manikganj; SS, Monirampur, Jessore and SS, Nasipur, Dinajpur
59	Seed yield performance of deshi jute as influenced by different spacing at late season	To study the effect of different spacing on seed production of <i>capsularis</i> jute in the late season	JAES, Manikganj; RS, Rangpur and SS, Monirampur, Jessore
Physiology Department			
60	Screening of <i>C. olitorius</i> germplasm for less sensitive to short day	To obtain such material for short day tolerance to fit in the cropping system	Dinajpur
61	Screening of <i>C. olitorius</i> germplasm for drought tolerance	To screen available germplasm for drought tolerance	Faridpur, Patuakhali
62	Evaluation of seed production potential of different accessions of <i>C. olitorius</i> in late sown condition	To identify better accessions compared with the check varieties	Manikganj, Rangpur
63	Dry matter partitioning of variety O-3820	To study adaptability and suitability of germplasm for cultivation of jute in the marginal condition	Green house, BJRI, Dhaka
64	Determination of the optimum harvest time and fibre quality of kenaf crops at field conditions	To fit kenaf in a profitable cropping system	JAES, Manikganj
65	Study the nutrient requirement of NPK & S on advance <i>Capsularis</i> breeding line BJC-5105	To obtain suitable dose for the production of advance line	Manikganj

Sl No.	Research Title	Objective(s)	Location
Soil Science Department			
66	Study the nutrient requirement of NPK & S on advance olitorius breeding line blue seeded ovate lance late glossy leaves (BLG)	A suitable dose for the advance olitorius breeding line blue seeded ovate lance late glossy leaves	Manikganj and Kishorganj
67	Study the effect of nutrient NPK and S on advanced breeding Kenaf line KE-3	To determine the nutritional requirements of the advanced breeding Kenaf line KE-3 for its optimum growth and yield.	Manikganj and Kishorganj
68	Updating of existing fertilizer recommendation for seed production the most popular jute variety BJRI Tossa pat-4	To update the requirement of nutrients for Jute seed production and to know the effect of nutrients on seed quality and storability	JAES, Manikganj
69	Utilization of old jute seed for jute production	To find out suitable dose and generate new information	Dhaka
70	Study the effect of Mazim (Tricho derma) organic fertilizer on jute var. BJRIO9897	Asuitable dose will be evolved and generate new information	Manikganj, Faridpur, Jessore Dhaka
PEST MANAGEMENT DIVISION (Plant Pathology Department)			
71	Seed health study of jute, kenaf and mesta seeds for recommendation	To produce of disease free quality seeds and fibre	Plant Pathology laboratory, BJRI
72	Screening of germplasms of jute against stem rot in sick bed	To develop of stem rot tolerant germplasm	Manikganj
73	Comparative study on fungal diseases of promising lines of jute and allied fibre crops	To compare different pipeline varieties of jute and allied fibre crops against disease along with a check variety	Manikganj
74	Evaluation of new spraying fungicides against seed borne fungal pathogens of jute, kenaf and mesta	Promising chemical fungicides would be selected for controlling fungal diseases	Manikganj, and Kishoreganj
75	Innovation new biological fungicides for controlling jute diseases	Innovation new biological fungicides for fungal disease of jute and allied fibre crops	Plant Pathology Lab.
76	Survey on diseases of jute and allied fibre crops	Incidence of disease and pest infestation yield loss due to occurrence of diseases could be measured	RS & Sub-Station
77	Survey on diseases of jute and allied fibre crops	To measure of disease and pest infestation yield loss	Regional stations and Sub stations

Sl No.	Research Title	Objective(s)	Location
Entomology Department			
78	Studies on the pest infestations of promising lines in different locations	To determine the pests status Location: Central station, Kishoregonj, Faridpur, JAES, Manikgonj and Rangpur.	
79	Screening of jute germplasm for resistance /tolerance against yellow mite	To identify resistance/ tolerance of jute germplasm of yellow mite Location: JAES, Manikgonj; Pakhimara, Patuakhali, Kishoregonj, Chandina, Rangpur and Monirampur, Jessore	
80	Screening of Kenaf and Mesta germplasm for stance/tolerance against spiral borer and mealy bug	To identify resistant germplasm Location: JAES, Manikgonj; Pakhimara, Patuakhali, Kishoregonj, Chandina, Rangpur and Monirampur, Jessore	
81	Varietal assessment against jute mealy bug	To assess varietal yield loss due to jute mealy bug infestation	Central station, Dhaka and JAES, Manikgonj
82	Study on Bio-ecology and management of Spodopteralitura	To study the detailed life history of Spodopteralitura, larvae and adult	Central station, Dhaka and JAES, Manikganj
83	Effect of new acaricides on jute yellow mite under field condition	To determine the efficacy of new pesticides	Central station, Dhaka and JAES, Manikganj
84	Effect of new insecticides against jute hairy caterpillar under field condition	To determine the efficacy of new insecticide	Central station, Dhaka and JAES, Manikganj
85	Survey of insect and mite pest of jute and allied fibre crops	Forecasting and monitoring of insect and mite pest status and yield loss	All Regional and sub-stations of BJRI

FIBRE QUALITY IMPROVEMENT DIVISION

86	Collection and Isolation of microbes from various natural sources and study of their retting properties	To isolated microbes for accelerate the retting speed and improve the quality of jute and allied fibres (JAF) plants	Central station, Dhaka and JAES, Jagir, Manikganj
87	Studies on retting and fibre properties of pre-released jute varieties.	To evaluate the retting and fibre properties of various released varieties of <i>C. capsularis</i> and <i>C. olitorius</i> jute	Rangpur, Faridpur, Manikganj
88	Comparative study on fibre properties of pre-released and cultivable jute and kenaf varieties in same source of retting water	To evaluate the fibre properties of various jute and kenaf varieties on same source of retting water and proper retting time	Rangpur, Faridpur, Kishoregonj, Chandina, Monirampur and Manikganj
89	Collection of retting effluents from different jute growing districts and study of their retting	To determine the microbial activity of retting effluents of different jute growing districts of Bangladesh	Central station, BJRI

SI No.	Research Title	Objective(s)	Location
	properties		
90	Comparative study on microbes of different sources of covering materials on jak before and after jute retting	To study on microbes of different retting water with covering materials	Dhaka Manikgonj, Rangpur, Faridpur, Kishoreganj and Monirampur
91	Study on jak and water volume ratio and improvement of retting water for 2 nd time retting stagnant condition	To find out the retting ratio between jak and water volume and improvement of retting water for 2 nd time retting	Dhaka Manikgonj, Rangpur, Faridpur, Kishoreganj, Monirampur
92	Up-gradation of SMR fibre	To develop methodologies for the improvement of the fibre quality	JAES, Manikgonj
93	Impact of optimum field duration of jute crop in ribbon retting in respect of its technical and economic viability	To find out as a suitable ribboning technique	JAES, Manikgonj, Rangpur, Chandina and Monirampur
94	Screening of potential hydrolytic microbes for extracellular enzymes and determination of their enzymatic activity on jute retting	To screen the potential hydrolytic jute retting fungus isolated from different sources specially farmers field for extraction of retting enzymes	Central station, Dhaka and JAES, Manikganj
95	Preparation of fungal inoculums package with promising fungus to be used in jute retting in water scarce jute growing areas	To develop an appropriate fungal inoculum package	Central station, Dhaka, JAES, Manikganj
96	Investigation of jute retting microbes in coastal/ saline area and study of their retting efficacy for obtaining better jute fibre	To assess the prospect of jute cultivation at the saline zones	Central Station, Dhaka and Jute Research Sub-station at Patuakhali
97	Demonstration and on-farm training on improved jute retting technologies and fibre grading technique for the jute growers	To disseminate mature location specific jute retting technologies and fibre grading system to the jute growers	Regional and Sub-stations of BJRI

JUTE FARMING SYSTEMS DIVISION

98	Performance of alternative cropping pattern Boro-Jute- T.Aman against existing farmers pattern Boro-Fallow-T.Aman in medium high land	To find out a suitable cropping pattern for the farmers	JAES, Manikganj
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SI No.	Research Title	Objective(s)	Location
99	Performance of alternative cropping pattern Mungbean Jute-T.Aman against existing farmers pattern Fallow/Pulses-Fallow-T.Aman in medium high land at	To find out a suitable cropping pattern for the farmers	Patuakhali region
100	Performance testing of cropping pattern Jute - Jute seed + Coriander/ Lalshak - Onion + Lalshak against existing Farmers pattern Jute-T.Aman-Maize	To develop appropriate cropping systems involving jute seed crop for different AEZ	Manikganj, Faridpur
101	Study the up date cost and return of jute seed production at farm level in different areas of Bangladesh	To estimate the cost and return for late jute seed crop production	Sirajganj, Rajshahi, Kushtia, Jessore and Dhaka.
102	Up date study on cost and return of jute fibre crops production at farm level in different areas of Bangladesh	To estimate the area, cost and socio-economic constraints for jute production Location: Faridpur, Rajbari, Naogaon, Kushtia, Jessore, Gopalganj, Chuadanga, Dinajpur, Lalmanirhat, Kurigram, Kishoreganj & Manikganj	
103	Up date study on cost and return of Kenaf fibre crops production at farm level in different areas of Bangladesh	To estimate the area, cost & socio-economic constraints for kenaf and mesta production	Rajbari, Barishal, Laxmipur, Sirajganj, Jamalpur, Comilla and Madaripur
104	Production of late jute crop in early stages of farmers established orchard plantation	To establish jute seed production at early stages in orchard plantation	Jessore, Khustia
105	Production of jute seed in farmers homestead area	To produce jute seed in farmers homestead areas	Jessore, Khustia
106	Field days, farmers training and seminar/ workshop on improved technologies for JAF crops	To motivate and popularizes the technologies to the farmers through training, demonstration and field days	All Jute village and blocks
107	Technology transfer through BJRI Jute Village and Jute Block	To identify farmers' constraints for adoption of technologies and generate feed back for further development	All Jute village and blocks
FARM MANAGEMENT DIVISION			
108	Comparative study of yield and yield parameters of BJRI tossa jute with exotic tossa jute	To identify the region specific suitable variety of JAF crops.	Manikganj, Rangpur, Faridpur, Monirampur, Kishoreganj and Dinajpur research station

SI No.	Research Title	Objective(s)	Location
109	Popularization of different JAF crop varieties of BJRI at farmer's level	To popularize the BJRI varieties to the farmers	Farmer's field nearby BJRI regional station and sub-station
110	Fibre yield of tossa jute as affected by variety and stage of harvest	To find out the appropriate age of harvest of different jute varieties	Jute Research Regional Station, Rangpur
111	Effect of plant spacing on fibre yield and yield components of kenaf	To determine the plant spacing of kenaf	Jute Research Regional Station, Rangpur
112	Effect of foliar application of urea on growth and yield of jute	To find out the efficiency the urea spraying for growth and yield of jute	Jute Research Regional Station, BJRI, Rangpur.
113	Study on the production cost and return of jute at farmers' level	To know the profitability of jute cultivation	Rangpur, Faridpur, Comilla, Dinajpur, Manikganj, Kishoreganj, Monirampur
114	Study on the efficacy of herbicides for weed control in jute and Kenaf	To select the effective herbicide(s) for jute and kenaf cultivation	Rangpur
115	Improvement of fibre quality jute by using TSP in wet condition	To improve the fibre quality by TSP treatment	Kishoreganj
116	Yield and yield parameters of jute as affected by top dressing and weed management	To reduction the cultivation cost of jute	Kishoreganj
117	Study on genetic variability of Kenaf (<i>Hibiscus cannabinus</i>)	To meet the diverse goals like increased yield, wider adaptability and desirable quality	JEAS, Manikgonj
118	Acclimatization of in vitro kenaf plantlet	To develop a protocol for adaptation of in vitro plantlet with natural environment	Department of Bio-technology, BAU, Mymensingh
119	Assessment of genetic variability and population structure of jute (<i>Corchorus olitorius</i>) from different geographic origins using morpho-agronomic traits and multivariate analysis	To identify the most divergent genotype(s) of tossa jute in respect of genetic variability for use in breeding program Location: Monirampur research station, Manikganj, Faridpur, Rangpur, Dinajpur, Kishoreganj, Chandina	
120	Production of truthfully labeled seed (TLS) of JAF	To ensure the availability of quality seed for the jute growers during the sowing time	

SI No.	Research Title	Objective(s)	Location
	crops and distribution among the farmers for fibre and seed production	Location: Manikganj, Faridpur, Rangpur, Dinajpur, Kishoreganj, Chandina, Monirampur, Patuakhali and Tarabo	
121	Jute seed production at farmer's level under the programme of "Nizer Beez Nizey Koree"	To make the farmers self sufficiency on jute seed production.	Manikganj, Faridpur, Kishoreganj, Chandina, Monirampur, Patuakhali and Tarabo
122	Hybridization among the selected <i>Hibiscus species</i>	To develop breeding materials resistance to leaf mosaic diseases, root-knot nematode, spiral borer, stem rot, prickly and bristle free	JEAS, Manikganj.
123	Study on different preservation technique of jute and kenaf seed for better quality	To ensure the seed quality in storage to obtain the better crop	Rangpur Station
124	Effect of time and method of threshing on yield and quality of kenaf seed	To develop the appropriate post harvest process for quality seed	Rangpur Station

TECHNOLOGY RESEARCH ON JUTE AND ALLIED FIBRE CROPS: TEXTILE TECHNOLOGY DIVISION (Physics Discipline)

125	Studies of different fastness properties of all kinds of jute products of BJRI to standardize them	To find out different properties of dyed/printed jute products for standardize	Textile Physics Division, Chemistry, Pilot Division,
126	Design and development in the production process of jute cotton blended yarn in short staple spinning technology and adaptive modeling	To establish a suitable system among raw material properties, process parameters and product properties	BJRI, JTPDC and BUTEX, IPE & BUET
127	Study the Properties of Jute Fibre Reinforced Technical Textiles	Diversified product of jute composite material which make the structures heavy and expensive	Physics Division, BJRI & BUTEX
128	Characterization of jute fibre of different ages for suitable blending in short staple spinning system	To diversify the use of jute and develop new products with raw and modified jute fibres	Technological wing of, JTPDC and BUTEX
129	Comparison between the mechanical properties of Jute fibre reinforced Polypropylene composites using woven and nonwoven jute fabrics	To improve the mechanical properties of jute based composite materials by utilizing both woven and nonwoven structures which have not been used extensively	Physics Division, BJRI and BUET, BUTEX, SEU, AEC, Savar,
130	Standardization of jute varieties both tossa and white released by BJRI at different time on the basis of objective assessment	To complete quality chart for the released varieties. It will be very helpful to the users and producers	BJRI Farms
131	Studies on fibre strength of jute fibre of different reed length and weight	To find out the variation of fibre strength with their variation	Manikganj, Textile Division BJRI

SI No.	Research Title	Objective(s)	Location
132	Studies on the electrical properties of low temperature plasma treatment	To investigate the effects of LTP treatment of jute fibre by glow discharge technique	BUET, AEC and BCSIR
133	Studies on resin viscosity on the properties of jute fibre reinforced polyyster	To find out the resin viscosity on the properties of jute fibre reinforced polyyster	BJRI

CHEMISTRY DIVISION

134	Chemical and physical studies on different samples of jute and allied fibres/sticks	To increase diversified end uses of jute goods	Fibre Chemistry Dept. & Chemistry Division
135	Preparation of different types of Acoustics panels by using jute fibre	To study their physico-mechanical and chemical properties to ascertain specific uses	Fibre Chemistry Dept. & Chemistry Division
136	Radiation induced improvement of jute materials	To improve the quality of jute materials and ensure new diversified uses of jute goods	Printing Dept. & Chemistry Division
137	Improvement of flameproof process of jute and jute fabrics for diversified uses	To develop suitable process for imparting desirable flameproof finishes to jute fabrics / yarns	Industrial Chemistry Dept., & Chemistry Division
138	Investigation of jute and allied fibrous materials as industrial raw materials to prepare chemical derivatives, pulps and other non-woven products	To suitable method for making pulp from jute for diversified use of jute in the world market	Industrial Chemistry Dept., & Chemistry Division
139	Studies on the physico-chemical properties of various chemically modified jute fibre and blends with other natural and synthetic fibre for making fashionable cloths for widely textile uses	To study the physico-chemical properties of modified jute fibre and blends with natural and synthetic fibres for making the fashionable cloths for widely use in textile sectors	Industrial Chemistry Dept., & Chemistry Division
140	Development of integrated chemical wet processes for the improvement of printing quality and dyeability of jute fabrics	To carry out for the improvement of dyeability of jute fabrics	Dyeing Dept., & Chemistry Division
141	Textile printing for decorative design on jute and jute blended products by developing thickeners using indigenous and natural starchy materials (maize starch)	To use as mixed and single thickeners in the field of textile printing	Printing Dept., & Chemistry Division

SI No.	Research Title	Objective(s)	Location
JUTE TECHNOLOGY (Micro-biology and Biochemistry)			
142	Isolation and characterization of lignocellulolytic microorganism (mesophilic and thermophilic fungi/ bacteria) from different jute mills of Bangladesh and studies their possible application on jute processing systems	To isolate lignocellulolytic organisms and evaluate their enzymatic activities to improve the quality of jute and jute based materials	Micro-biology, Biochemistry Lab, Genetic Resourcr & Seed Division and Jute Mills
143	Production and optimization of cellulase and xylanase by using <i>Trichoderma</i> sp. In shake culture fermentation	To produce cellulases and xylanases from <i>Trichoderma</i> spp. in shake culture	Micro-biology, Biochemistry Lab, Genetic Resourcr & Seed Division
144	Study of jute retting bacteria and fungi	To develop improved microbial and enzyme technology for jute retting To reduce the requirement of huge water	Manikganj Micro-biology, Biochemistry Lab, Genetic Resourcr & Seed Division
145	Rheological study of starches (corn, cassava and potato) by applying starch phosphorylase extracted from Potato and other plant root materials	To determine the effect of starch phosphorylase enzymes for jute yarn desizing	Micro-biology, Biochemistry Lab
146	Study of starch phosphorylase application on starch during processing of jute fabrics	To determine the effect of starch phosphorylase enzymes for jute yarn desizing	Micro-biology, Biochemistry Lab. and Jute yarn Mills
147	Application of cellulases and xylanases for bio-polishing, bio-finishing and stone washing of jute and jute blended products	To remove the undesirable properties of the diversified jute products by the application of enzymes	Micro-biology, Biochemistry Lab, and Jute yarn Mills
148	Improvement of mechanical process of fibre separation without undergoing traditional techniques	To improve mechanical process of fibre separation by a newly developed fibre separating machine	Micro-biology, Biochemistry Dept. Textile Physics & Chemistry Dept. BJRI
149	Development of value added product by jute leaves (tea, soup powder and vinegar soaked salad item in jar etc.)	To estimate the nutritional status of process of jute leaves	Micro-biology, Biochemistry Dept.
150	Preservation of jute leaves by using improved traditional techniques	To study the effect of traditional preservation methods on nutrient contents of jute leaves.	Micro-biology, Biochemistry Dept. & Manikganj

SI No.	Research Title	Objective(s)	Location
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MECHANICAL PROCESSING DIVISION

151	Conversion of the jute spool winding machine from wooden spool to paper spool system	To use paper spool instead of wooden spool will reduce the use of wood and increase the use of paper	Experimental spinning mill, BJRI
152	Fabrication of thermosetting composite materials proportion and arrangement	Proper development of jute reinforcement composite material will increase the use of jute fibre in the field of engineering materials	Mechanical Processing Division
153	A study on smell free and economy jute processing oil (Verdure and Rafi) for jute spinning industry	To improve the uniformity of product, obtain certain physical characteristics in the yarn or fabrics along with advantages of jute process for cost savings, smell free product produce and yarn makes soft feeling	Spinning Department, Mechanical Processing Division
154	Effect of conditioning on processing and properties of jute fibre and yarn	To find out different drawing machine as conditioning period of jute fibre and yarn as per standard methods	Experimental spinning mill, BJRI
155	Study on the physical properties of jute-cotton union fabric	New diversified jute products	Weaving Department, Mechanical Processing Division
156	Visit the different Jute mills and organizations for sharing scientific processing techniques and methods for jute and jute goods	To visit the different Jute mills and organizations to share scientific processing techniques and methods	Jute mills and Universities in the country and abroad
157	Technical services to different entrepreneur and training to academic organizations to promote jute and jute goods	To help the technical assistance to different organization/institution	Spinning Department, Mechanical Processing Division

PILOT PLANT AND PROCESSING DIVISION

158	Study on the pre-treatment process optimization of jute fabric for green Environment	To potential application in cleaner production of jute cellulose materials	Pilot plant and Processing Division, BJRI BuTex
159	Study on the effect of salt concentration during jute dyeing on reactive dye	To overcome the salt concentration for the dyeing of jute fabric	Pilot plant and Processing Division, BJRI BuTex
160	Study on the effect of temperature on the properties of dyed fabric in stenter machine.	To control shrinkage spirality, increase depth of shade and remove extra colour	Pilot plant and Processing Division, BJRI
161	Manufacturing of different traditional jute products assuring	To take proper advantages in the market	Pilot plant & Processing

SI No.	Research Title	Objective(s)	Location
	qualities with cost minimization for market potentiality		Division
162	Comparative study between chemically modified jute fiber and optical brightener treated jute fiber	To determine whitening agent which is the best for jute fabrics?	Pilot plant and Processing Division, BJRI
163	Study on the calorific properties of fuel cake produced from various types of jute wastes	To reduce environment pollution from burning the wastes	Pilot plant and Processing Division, BJRI
164	Production of outer wears with Jute woolenised yarn and study of its market feasibility	To study of its market feasibility	Pilot plant and Processing Division, BJRI
165	Provide technical services in the industries to promote marketing of jute goods at home and abroad	To render technical and processing services to the manufactures and exports of jute goods on payment of usual fees as provided under bilateral agreement	Pilot plant and Processing Division, BJRI
166	Processing of different types of jute waste for production of renewable natural gas	To increase energy security, lower emission and preventing methane release into the atmosphere	Pilot plant and Processing Division, BJRI, BUET, BCSIR
167	Studies on physio-chemical properties of jute fibre at different growth age and development of suitable dyeing methods by using all classes of dyes synthetic and natural dyes	Dying, printing and finishing of jute and jute products for the improvement of market potentiality	Dyeing Department, Mechanical Processing Division, Chemistry Dept., Jahangir Nagar University
168	Study on jute Geo-Textile process with different types of low cost chemicals and natural additives for cost minimization	Pilot scale production, entrepreneurship development and transfer of technology	Different laboratories of BJRI

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PLANT BREEDING DIVISION

SI No.	Research Title	Objective(s)	Location
1	Varietal improvement of T. Aman, Boro and Aus rice by induced mutation and other advanced breeding techniques	To develop varieties with higher yield; tolerance to major diseases and insect-pests; strong grain aroma with long slender grain; higher iron content; and tolerances to low/high temperature, drought, salinity and deep water Location: Mymensingh, Rangpur, Jamalpur, Comilla, Nalitabari, Ishurdi, hapainawbabganj, Magura, Rajshahi, Barisal, Sunamgonj, Gopalganj and Jhalokathi	
2	Field evaluation of a high yielding iron rich mutant line	To assess yield potential and earliness over locations for releasing as a variety Location: Mymensingh and Rangpur, Jamalpur, Comilla (Sub Stations) and Nalitabari, Mymensingh, Rangpur, Jamalpur, Comilla and Nalitabari, (On Farm)	
3	Zonal yield trial with M ₆ mutant lines of NERICA-10 rice	To assess earliness and yield performance under direct seeding and rainfed conditions Location: Mymensingh and Rangpur, Ishurdi, hapainawbabganj and Magura Sub Statiuon), Rangpur, Ishurdi, Rajshahi and Magura, (On- Farm)	
4	Preliminary yield trial with some aromatic rice lines	To assess yield and maturity	Mymensingh (HQ)
5	Preliminary yield trial with M ₅ mutants of deep water rice under deep water condition	To assess yield and maturity under deep water condition	Barisal and Sunamgonj (Sub Station)
6	Screening of recurrent carbon ion irradiated M ₁ R ₂ population of Swarna rice in T. Aman season	To select BLB, sheath blight resistant and high yielding plants/ progenies	Mymensingh (HQ)
7	Screening of gamma ray irradiated M ₂ population of BR11 in T. Aman season	To select BLB, sheath blight resistant and high yielding plants/progenies	Mymensingh (HQ)
8	Screening of gamma ray irradiated M ₂ population of BRRI dhan49 rice in T. Aman season	To select false smut resistant and high yielding plant/progenies of BRRI dhan49	Mymensingh (HQ)
9	Recurrent irradiation to M ₁ seeds of BRRI dhan49 rice in T. Aman season	To develop false smut resistant and high yielding mutant(s) of BRRI dhan49	Mymensingh (HQ)
10	Growing of M ₁ generation of Biroi rice in T. Aman season	To develop mutants with higher yield and lodging resistance	Mymensingh (HQ)

SI No.	Research Title	Objective(s)	Location
11	Zonal yield trial with high yielding mutant lines	To assess yield potential over locations Location: Mymensingh (HQ) and Comilla, Barisal and Sunamgonj (Sub-Station), Gopalganj and Jhalokathi (On- Farm)	
12	Preliminary yield trial with some aromatic rice lines	To assess yield and maturity	Mymensingh (HQ) and Magura (Sub Station)
13	On-farm and on-station trial with M ₇ mutants of NERICA-10 rice under direct seeding and rainfed condition	To assess earliness and yield performance under direct seeding and rainfed conditions Location: Mymensingh, Rangpur, Ishurdi, Magura, Chapainawabganj and Nalitabari (Sub-Station), Mymensingh, Ishurdi, Magura, Chapainawabganj and Nalitabari (On – Farm)	
14	Preliminary yield trial with some Kasalath mutants	To assess yield performance under phosphorus deficit condition	Mymensingh (HQ)
15	Germplasm maintenance T. Aman and Boro rice	To maintain the seeds (genetic resources) of different cultivars/ mutants for future use	Mymensingh (HQ)
16	Genetic enhancement of salinity and drought tolerance in rice through nuclear and other advanced breeding techniques	To develop varieties/mutant lines with salinity/ drought tolerance; ensuring higher grain yield under salinity/drought stresses; and tolerances to major diseases and pests	Mymensingh, Chapai-Nawabganj and Rajshahi
17	Evaluation of rice germplasm/landraces under salinity/drought stresses	To assess level of tolerances under high salinity and drought stresses	Mymensingh (HQ)
18	Advanced yield trial of some drought tolerant rice mutants/lines	To assess yield potentials under drought condition	Chapai-Nawabganj and Rajshahi (Sub-Station & On -Farm)
19	Growing of M ₂ populations of salt/ drought tolerant land races	To select desirable salinity/drought tolerant rice mutants	Mymensingh
20	Growing of M ₁ populations of salt/ drought tolerant land races	To develop salinity/drought tolerant rice mutants	Mymensingh
21	Crossing of salinity/drought tolerant landraces with elite mutants/ cultivars for producing F ₁ seeds	To transfer salinity/drought tolerant characters to elite cultivars	Mymensingh
22	Improvement of rice yield and grain quality	To develop varieties/mutant lines with strong grain aroma, moderate amylose content (18-21%) with long slender grain (Basmati type); higher grain yield, photoperiod insensitive and semi-dwarf and strong plant types; and tolerances to major diseases and pests	Mymensingh, Rangpur, Magura, Jamalpur, and Comilla

SI No.	Research Title	Objective(s)	Location
23	Evaluation of rice grmplasm/land races for yield potentials and premium grain quality	To assess yield potentials, aroma and photoperiod sensitivity	Mymensingh
24	Zonal yield trial of some early maturing fine grain rice mutants	To assess yield potentials and earliness in T. Aman season	Mymensingh, Rangpur, Magura, Jamalpur, and Comilla (Sub – Stations)
25	Growing of M ₂ populations of some aromatic land races	To select desired plant types	Mymensingh
26	Growing of M ₁ populations of some aromatic land races	To select desired plant types	Mymensingh
27	Crossing of aromatic landraces with elite rice mutants/cultivars for producing F ₁ seeds	To transfer aroma and premium quality characters to elite cultivars / mutants	Mymensingh
28	Development of heat and salt tolerant wheat variety	To develop heat and salt tolerant wheat varieties Location: Mymensingh, Patuakhali, Satkhira, Patuakhali, Borguna, Bagherhat, Khulna, Ishurdi and Rangpur	
29	Field evaluation of a high yielding salt tolerant wheat mutant	To assess yield potential and days to maturity for releasing as a variety	Satkhira, Patuakhali, Borguna, Bagherhat, Khulna, Ishurdi and Rangpur
30	Screening of M ₂ progenies of wheat for heat tolerance	To select heat tolerant plants with shorter duration	Mymensingh
31	Screening bulk M ₂ population of wheat for heat and salt tolerance	To select heat and salt tolerant plants with shorter duration	Pakhimara, Patuakhali
32	Varietal improvement of Foxtail millet through mutation and other advanced breeding techniques	To develop varieties/mutant lines with higher grain yield; ensuring higher grain yield under salinity / drought stresses; and tolerances to major diseases and insect-pests	Mymensingh
33	Evaluation of pearl millet germplasm under drought / salinity stresses	To assess level of tolerances under high drought and salinity stresses	Mymensingh
34	Germplasm collection of locally growing different pearl millet cultivars and evaluation for yield attributes	To assess yield and other morpho-physiological attributes under normal growth condition	Mymensingh

SI No.	Research Title	Objective(s)	Location
35	Growing of M ₂ populations of pearl millet	To develop salinity / drought tolerant high yielding pear millet mutants	Mymensingh
36	Growing of M ₁ populations of pearl millet	To develop salinity /drought tolerant high yielding pear millet mutants	Mymensingh
37	Development of semi dwarf and high yielding maize varieties through induced mutation	To develop varieties / mutant lines with dwarf plant height, tolerant to water logged condition, higher seed yield and tolerances to major diseases and pests	Mymensingh
38	Collection and Evaluation of local/exotic maize cultivars and inbred lines	To assess yield potential and other morpho-physiological attributes	Mymensingh
39	Selfing of maize for developing pure inbred lines	To get pure inbred line	Mymensingh
40	Irradiation of selected maize cultivars and growing of M ₁ populations	To create variability for high yielding dwarf mutant	Mymensingh
41	Varietal improvement of rapeseed-mustard through induced mutations and other advanced breeding techniques	Development of varieties with early maturity (70-80) and higher seed yield; non-shattering silique habit in <i>B. napus</i> ; resistance / tolerance to <i>Alternaria</i> blight disease; and tolerance to salinity and drought	Mymensingh, Ishurdi, Magura, Rangpur, Satkhira, Chapai Nawabganj, Tangail and Manikgonj
42	On-station and on-farm yield trials with advanced rapeseed mutant/line	To assess overall performance of the mutants/lines for earliness, seed yield and reaction to <i>Alternaria</i> blight disease Location: Mymensingh, Ishurdi, Magura, Rangpur, Satkhira and Chapai Nawabganj (Sub-Station) and Tangail, Manikgonj, Ishurdi, Magura, Rangpur, Satkhira and Chapai Nawabganj (On-Farm)	
43	Zonal yield trial with advanced M ₉ <i>B. napus</i> mutants	To assess overall performance of the mutants for earliness, seed yield and reaction to <i>Alternaria</i> blight disease	Ishurdi, Magura, Rangpur and Satkhira (Sub-Station)
44	On-station yield trial with advanced M ₈ <i>B. juncea</i> mutants	To assess overall performance of the mutants for earliness, seed yield and reaction to <i>Alternaria</i> blight disease	Ishurdi, Magura and Rangpur (Sub-Station)
45	Growing of F ₆ lines from cross between Binasarisha-4 and Tori-7	To select stable and desirable lines	Mymensingh and Rangpur (Sub-Station)
46	Growing of M ₄ population	To select desirable mutants with early maturity	Mymensingh

SI No.	Research Title	Objective(s)	Location
47	Growing of M ₂ generation	To select early maturing mutants	Mymensingh
48	Growing of F ₂ generation from crossing of Binasarisha-4 with Tori-7, BARI Sarisha-14 and BARI Sarisha-15	To select early maturing lines	Mymensingh
49	Growing of M ₁ generation	To create genetic variability	Mymensingh
50	Growing of F ₁ generation from crossing of Binasarisha-4 with Tori-7, BARI Sarisha-14 & 15	To develop early maturing and high yielding rapeseed lines	Mymensingh
51	Crossing Binasarisha-4 with Tori-7, BARI Sarisha-14 & 15	To develop early maturing and high yielding rapeseed lines	Mymensingh
52	Maintenance of germplasm	To maintain breeding materials	Mymensingh and Magura (Sub-Station)
53	Varietal improvement of groundnut through mutation and other advanced breeding techniques	To develop varieties with early maturity (120-130 days); drought, salinity, high/low temperature tolerances; and multiple resistance/tolerance to diseases and insect pests	Mymensingh
54	Observation trial with M ₄ population of groundnut	To assess yield potential and earliness	Mymensingh
55	Growing of M ₂ generation of groundnut	To screen early maturing mutants with higher number of pods/ plant	Mymensingh
56	Maintenance of mutant germplasm	To maintain the mutant germplasm	Mymensingh
57	Varietal improvement of sesame through induced mutation and other advanced breeding techniques	Development of early maturing varieties with higher seed yield potential; tolerant to water-logged condition; tolerant to salinity and drought; and non-shattering capsule habit Location: Ishurdi, Magura, Chapainawbabganj, Satkhira, Khagrasori, Jessore, Faridpur and Khulna	
58	On-farm and on-station yield trials with promising sesame mutants	To select mutants for improved yield components, higher seed yield and earliness Location: Ishurdi, Magura, Chapai Nawbabganj, Satkhira and Khagrasari (Sub-Station) and Ishurdi, Magura, Jessore, Faridpur, Khulna, Chapai Nawbabganj, Satkhira and Khagrasari (On-Farm)	
59	Preliminary yield trial with promising M ₅ sesame mutants	To select mutants for improved yield components, higher seed yield and earliness Location: Ishurdi, Magura, Chapai Nawbabganj, Satkhira and Khagrasari (Sub-Station)	

SI No.	Research Title	Objective(s)	Location
60	Screening of sesame mutants/lines for salinity tolerance	To assess level of tolerance under salt stress	Mymensingh and Satkhira and Khulna (On-Station)
61	Growing of M ₂ population	To select early maturing and stable mutants with higher yield	Mymensingh
62	Growing of M ₁ generation	To create variability for selection of desirable mutants	Magura (Sub-Station)
63	Crossing within Binatil-1, 2 & 3 and BARI Til-4	To develop early maturing and high yielding sesame lines	Mymensingh
64	Maintenance of germplasm	To maintain breeding materials for future uses	Magura and Ishurdi (Sub-Station)
65	Varietal improvement of soybean through induced mutation	Development of soybean varieties with early maturity and high seed yield potential; having longer period of seed viability; resistance/ tolerance to major diseases and insect-pests; and tolerance to salinity and drought. Location: Mymensingh, Rangpur, Ishurdi, Satkhira, Comilla, Noakhali, Magura, Khulna, Chapai Nawabganj, Chandpur and Laxmipur	
66	On-station and on-farm yield trials with M9 soybean mutants	To select early maturing and high yielding mutants as varieties. Location: Rangpur, Ishurdi, Satkhira, Comilla, Noakhali, Magura and Chapai Nawabganj (Sub- Station) and Chandpur, Laxmipur and Noakhali (On-Farm)	
67	Screening of soybean varieties/mutants/lines for salinity tolerance	To assess level of tolerance under salt stress	Mymensingh and Satkhira and Khulna (On-Farm)
68	Growing of M ₃ population	To select early maturing mutants	Magura
69	Growing of M ₂ population	To select early maturing mutants	Mymensingh
70	Growing of M ₁ generation	To create variability for selection of desirable mutants	Mymensingh
71	Maintenance of local and exotic germplasm	To maintain the germplasm for future utilization	Magura
72	Development of semi dwarf and high yielding sunflower varieties through induced mutation	To develop varieties / mutant lines with Dwarf plant height; higher seed yield and tolerances to major diseases and pests	Mymensingh
73	Collection and Evaluation of local / exotic sunflower cultivars	To assess yield potential and other morpho-physiological attributes	Mymensingh
74	Irradiation of selected sunflower cultivars and growing of M ₁ populations	To create variability	Mymensingh

SI No.	Research Title	Objective(s)	Location
75	Varietal improvement of mungbean using mutation breeding techniques	To develop varieties of summer mungbean with high yielding; early maturity; resistance/tolerance to MYMV, CLS, PM diseases and pod borer insect and resistance/tolerance to weather damage (for summer mungbean only)	Mymensingh, Magura, Ishurdi, Barisal and Natore
76	On-farm and on-station trial of two promising summer mungbean mutants	To assess overall performance of the mutants in respect of earliness, higher seed yield and disease tolerance	Magura, Ishurdi and Barisla (Sub-Station) and Magura, Ishurdi and Natore (On-Farm)
77	Advanced yield trial of some promising summer mungbean mutants	To select desirable mutants and assess overall performance of the mutants for earliness, seed coat colour, seed yield and disease reaction	Magura, Natore, Ishurdi and Barisal
78	Growing of M ₃ generation of mungbean	To select desirable mutants	Ishurdi (Sub-Station)
79	Growing of M ₂ generation of mungbean	To create variability for selection of desirable mutants	Ishurdi (Sub-Station)
80	Growing of M ₁ population of irradiated seeds of yellow seed coated mutants of summer mungbean	To develop yellow shiny seed coated, high yielding and disease free/tolerant mungbean mutants	Ishurdi (Sub-Station)
81	Crossing of yellow seed coated mungbean mutants with existing varieties and AVRDC lines	To develop yellow shiny seed coated, high yielding and disease free/tolerant mungbean mutants	Mymensingh
82	Maintenance of local and exotic germplasm	To maintain breeding materials	Mymensingh
83	Varietal improvement of chickpea for problem areas through induced mutations	Development of varieties for dry and saline areas with higher or acceptable seed yield; resistance /tolerance to grey mold (<i>Botrytis</i> sp.), root rot and wilt diseases resistance/ tolerance to pod borer and cut worm and Kabuli type for diseases resistant and higher yield	Godagari (Barind), Ishurdi and Magura
84	Zonal yield trial of some promising mutants of chickpea	To select high yielding variety(s) of chickpea with large seed size and early maturity, disease and insect pest reaction	Godagari (Barind), Ishurdi and Magura (Sub-Station)
85	Advanced yield trial of some promising mutants of chickpea	To select high yielding variety(s) of chickpea with large seed size and early maturity	Godagari (Barind) and Magura sub-station farm

SI No.	Research Title	Objective(s)	Location
86	Growing of M ₁ population of chickpea	To develop mutant with high yielding, high protein, attractive seed coat colour, disease tolerant/resistant	Mymensingh
87	Varietal improvement of lentil through induced mutation	Development of varieties for dry areas with good seed yield/acceptable seed yield; super earliness to fit rice based cropping pattern; higher nutritional quality (Protein, Fe, and Zn); and earliness, higher yield and resistance/ tolerance to collar rot, root rot/wilt, stemphylium blight and rust diseases	Ishurdi, Magura, Chapai Nawabganj, Rajshahi, Natore, Nachol and Jessore
88	On-farm and on-station yield trial with lentil mutants/line	To assess the yield potential of the lines on farmer's field condition Location: Ishurdi, Magura, Chapai Nawabganj (Sub-Station) Ishurdi, Magura, Chapai Nawabganj, Rajshahi, Natore, Nachol and Jessore (On-Farm)	
89	Advanced yield trial of some promising lines of lentil	To assess the yield potential of the accessions	Ishurdi, Magura and Chapai Nawabganj (Sub -Station)
90	Preliminary yield trial of some promising lines of lentil	To assess the yield potential of the accessions	Ishurdi and Magura (Sub-Station)
91	Screening of drought tolerance using polyethylene glycol	To identify drought tolerant lines	Mymensingh
92	Elite Nursery, Early (LIEN E-16) Elite Nursery, Micronutrient Nursery (LIMN-16) Drought Tolerance Nursery (LIDTN-16)	To assess the yield potential of the accessions	Mymensingh
93	Screening of M ₃ /M ₄ population of lentil	To select early, drought resistant and higher nutrient enriched mutants with higher seed yield	Ishurdi and Magura (Sub-station)
94	Screening of M ₂ population of lentil	Selection of high yielding early mutants	Magura (Sub-station)
95	Growing of M ₁ population of lentil	To maintain the lentil germplasm	Magura (Sub-station)
96	Maintenance of germplasm	To maintain the lentil germplasm	Magura and Ishurdi (Sub-station)
97	Varietal improvement of grasspea through induced mutation	Development of varieties with higher seed yield potential; and low ODAP content	Mymensingh, Magura
98	Screening of M ₄ generation of grasspea	To select high yielding low ODAP grasspea mutants	Magura (Sub-station)
99	Segregating Population Nursery (GISPN-16)	Selection of desirable lines	Magura (Sub-station)

SI No.	Research Title	Objective(s)	Location
100	Growing of M ₁ generation	To create variability for selection of higher yield and low ODAP	Magura (Sub-station)
101	Maintenance of grasspea germplasm	To maintain the grasspea germplasm lines	Magura (Sub-station)
102	Varietal improvement of blackgram through induced mutation	Development of varieties with higher seed yield; erect plant type; earliness and resistance/ tolerance to YMV and CLS; and synchrony in pod maturity	Magura (Sub-station)
103	Preliminary yield trial with seven selected mutants of blackgram	To select desirable mutants	Magura (Sub-station)
104	Growing of M ₃ generation	To select desirable mutants	Magura (Sub-station)
105	Growing of M ₁ generation	To create variability for selection of higher yield	Magura (Sub-station)
106	Varietal improvement of cowpea through induced mutation	Development of varieties with erect plant type, higher seed yield, earliness, and resistance/ tolerance to YMV, CLS and synchrony in pod maturity	Mymensingh
107	Germplasm collection of locally growing different cowpea cultivars and evaluation for yield attributes	To create variability for selection of higher yield	Mymensingh
108	Growing of M ₂ populations of cowpea	To select high yielding stress tolerant pearl millet mutants	Mymensingh
109	Growing of M ₁ populations of cowpea	To develop high yielding stress tolerant cowpea mutants	Mymensingh
110	Varietal improvement of onion using induced mutation	To develop varieties with high yield potentiality; good seed set under unfavorable climatic conditions; longer storage capacity; and resistant/ tolerant to leaf blotch and Stemphylium blotch disease	Ishurdi, Rangpur, Magura Chapai Nawabganj, Bogra, Rajbari, Manikgonj, Natore and Rajshahi
111	On farm and on-station trials using M ₇ set for bulb yield potential in Kharif-II season	To assess bulb yield potentials of the mutants	Ishurdi, Rangpur, Magura, Chapai Nawabganj and Bogra
112	On-farm and on station trials for seed yield potential of the M ₈ mutants	To assess seed yield potentials of the mutants in winter	Rajbari, Manikgonj, Natore and Rajshahi
113	Production of M ₉ pure seed	To multiply seed	Ishurdi Rangpur and Chapainawba bganj

SI No.	Research Title	Objective(s)	Location
114	Production of set from M ₈ seeds	To produce seed	Mymensingh
115	On farm and on-station trials using M ₉ seeds for bulb yield potential in Kharif-I season	To assess bulb yield potentials of the mutants Location: Ishurdi, Rangpur, Magura and Chapai Nawabganj & Bogra, Lalmonirhat and Jessore (On-Farm)	
116	Varietal improvement of tossa jute	To develop high yielding variety with better quality fiber	Mymensingh
117	Seed purification of a high fiber and stick yielding mutant line of tossa jute	To produce pure seed	Mymensingh
118	Growing of M ₁ generation	To create variation for high fiber and stick yield	Mymensingh
119	Varietal improvement of different crops using marker assisted breeding (MAB)	To develop high yielding and early maturing variety	Mymensingh
120	Growing of M ₁ generation of rice (BRRI dhan28)	To select desirable mutants for high yielding and early maturing variety	Mymensingh
121	Growing/Screening of M ₂ , M ₃ and M ₄ generation of different landraces and exotic rice germplasm using molecular markers	To select desirable mutants having drought tolerance, short duration, higher grain yield, fine and medium fine grain and resistance/ tolerance to major diseases/ insects	Mymensingh
122	Evaluation of M ₅ generation of selected segregating plants of NERICA for drought tolerance using phenotypic and molecular markers	To select desirable mutants for drought and disease tolerance	Mymensingh
123	Preliminary yield trial of some promising NERICA rice mutants for drought tolerance	To select desirable mutants for drought and disease tolerance	Mymensingh
124	Advanced yield trial of some promising NERICA rice mutants for drought tolerance	To select desirable mutants for drought and disease tolerance	Mymensingh
125	Zonal yield trial of promising dual tolerant rice lines for salinity and submergence prone areas	To select desirable mutants for salinity and submergence tolerance	Mymensingh
126	On-farm/ on station trial of promising NERICA Rice mutants	To select desirable mutants for drought and disease tolerance	Mymensingh

SI No.	Research Title	Objective(s)	Location
127	Evaluation of NERICA mutants and some selected varieties in aman season for drought tolerance	To select desirable mutants for drought and disease tolerance	Mymensingh
128	Marker-assisted backcrossing (B C ₂ F ₃ of Binadhan-7 × FL-478) for development of salt tolerant rice variety	To introgress salt tolerant genes	Mymensingh
129	Evaluation of selected salt tolerant rice lines with better grain quality in multi-location trials	To identify salt tolerant rice lines in PVS locations	Mymensingh
130	Evaluation of promising submergence tolerant rice germplasm in multi location trials	To identify submergence tolerant rice lines through PVS	Mymensingh
131	Screening, purification and morpho-molecular characterization of coastal rice landraces for salt tolerance	To identify salt tolerant rice lines from landraces	Mymensingh
132	Screening of both salinity and Zn deficiency tolerance elite breeding rice lines	To select desirable rice lines for Zn deficiency and salt tolerance	Mymensingh
133	Association mapping for salinity and drought tolerance in rice genotypes	Introgression of drought tolerant gene into Binadhan-11, Binadhan-16, Binadhan-17 using induced mutation and marker assisted selection	Mymensingh
134	Introgression of drought tolerant gene into Bangladeshi popular rice varieties through induced mutation and marker assisted selection	To develop Fe- rich rice variety	Mymensingh
135	Introgression of salinity and submergence tolerant genes into leading rice varieties	To introgress saltol-Sub1 genes from selected IRRI lines into Binadhan-10 and Binadhan-11	Mymensingh
136	Screening of advanced mutants/ exotic lines for development of Zn enriched rice variety	To develop Zn enriched rice variety for enhancing nutritional balance for human health	Mymensingh
137	Morpho-molecular characterization of crop varieties/ germplasm	To characterize crop varieties/germplasm	Mymensingh
138	DNA fingerprinting and molecular	To characterize varieties/mutants at molecular level	Mymensingh

SI No.	Research Title	Objective(s)	Location
	characterization of varieties/mutants via molecular markers		
139	Marker assisted pyramiding of Bacterial blight resistant genes in popular Binadhan-10 rice	To develop bacterial blight resistance lines of Binadhan-10	Mymensingh
Biotechnology			
Development of salinity and drought tolerant, early maturing high yielding rice			
140	Expression studies of salt/drought tolerant, early maturing and high yielding genes	<ul style="list-style-type: none"> Isolate salinity and drought tolerant, early maturing, high yielding novel genes Develop salinity and drought tolerant, early maturing and high yielding transgenic varieties 	Bio-Technology laboratory (BTL)
141	Cloning of salt/drought tolerant, early maturing and high yielding rice genes through Gateway technology	<ul style="list-style-type: none"> Isolate salinity and drought tolerant, early maturing, high yielding novel genes Develop salinity and drought tolerant, early maturing and high yielding transgenic varieties 	BTL
142	Transfer of salt/drought tolerant, early maturing and high yielding genes into rice through <i>Agrobacterium</i> mediated transformation	<ul style="list-style-type: none"> Isolate salinity and drought tolerant, early maturing, high yielding novel genes Develop salinity and drought tolerant, early maturing and high yielding transgenic varieties 	BTL
Improvement of local rice varieties			
143	Map-base cloning of mutant gene	Improvement of lodging tolerant through MAS	BTL
144	Genetic analysis and identification of a regulatory gene for semi-dwarf rice		BTL
Development of cold tolerant rice through MAS			
145	Growing of M ₁ generation of rice (BRRI dhan 36)	<ul style="list-style-type: none"> Markers related to cold tolerance that can be used to facilitate marker-assisted breeding. Evaluation of genotypes in the cold prone environments under the management practices of researchers. 	BINA farm and BTL
146	Introgression of cold tolerant genes into HYV rice varieties		BINA farm and BTL
147	DNA fingerprinting of varieties /mutants using cold tolerant primers		BINA farm and BTL
Varietal improvement for salt tolerance, diseases resistance and higher yield of rice through marker assisted breeding			
148	Growing of M ₁ generation of local	<ul style="list-style-type: none"> To develop salt tolerant, diseases resistant, 	BINA farm and BTL

SI No.	Research Title	Objective(s)	Location
	cultivated and salt tolerant rice genotypes	high yielding and early maturing rice variety • To develop long seedling height, high yielding and early maturing rice variety for southern region • To identify yield enhancement QTL and enhance the grain yield of elite Bangladeshi rice variety	
149	Improvement of salt tolerance rice varieties through induced mutation and marker assisted backcrossing		
150	Development of rice varieties through gene pyramiding for resistance to bacterial blight (BB)		
151	Identification trait-enhancing alleles for yield and yield components in an advanced backcross population between <i>Oryza rufipogon</i> and the <i>Oryza sativa</i> cultivar		

SOIL SCIENCE DIVISION

Soil management and biofertilizer			
152	Evaluation of physico-chemical characters of soils in part of Brahmaputra, Ganges and Meghna River Floodplains, Madhupur Tract, Piedmont Plains and hilly areas	• To monitor the changes in selected physico-chemical characters of soils during the period between 1960s and 2015 • To study the soil redistribution with the ¹³⁷ Cs status • To find out whether the land undergone any degradation or not	10 selected AEZs
153	Field trials with major crops/cropping patterns in selected AEZs for sustaining soil fertility and crop productivity	• To perform detailed baseline survey of the study area • To establish nutrient trapping field trials with major crops/cropping patterns • To evaluate soils in terms of fertility and biological productivity	Mymensingh & Rangpur
154	Characterization of the soils of BINA substation farms at Nalitabari and Khagrachari	• To survey and collected soil samples from the substation and analyzed for detailed physico-chemical properties • To evaluate the soils in relation to crop production potential	Nalitabari, Khagrachari (Sub-Station)
155	Evaluation of soil test methods for phosphorus and its critical limit for BINA developed varieties in some soils using ³² P as tracer	• To determine the best procedure for extracting soil P that provides the highest correlation with plant dry matter production • To determine critical level of soil P	BINA (Glass house)
156		• To monitor the salinity of soil throughout the year	Khepupara, Patuakhali

SI No.	Research Title	Objective(s)	Location
		<ul style="list-style-type: none"> To see the suitability of crops grown under different salinity condition To see any improvement in soils due to use of organic manure with chemical fertilizers 	
157	Fertilizer management practices for Mustard-Boro-T.aman rice cropping pattern	<ul style="list-style-type: none"> To find out the appropriate fertilizer packages for studied cropping pattern To maintain sustainable production and improve soil health 	Nalitabari, Sherpur
158	Stable carbon isotope depth profiles and soil organic carbon dynamics	<ul style="list-style-type: none"> To determine the amount of carbon content in different soil depth To determine depth profile of organic carbon content in soil 	Mymensingh
159	Organic carbon and stable ^{13}C isotope in conservation agriculture and conventional systems	<ul style="list-style-type: none"> To quantify soil organic carbon (SOC) and soil C derived from C3 (rice) and C4 (maize) using $\delta^{13}\text{C}$ stable isotope. To determine depth profile of organic carbon content in soil 	Mymensingh
160	Influence of organic and inorganic sources of nitrogen on N transformation and uptake under rice-mungbean-rice cropping system with ^{15}N tracer	<ul style="list-style-type: none"> To determine physico-chemical properties of soil To estimate nitrogen and organic carbon status in soil To determine respiration capacity of soil To determine yield and nutrient uptake capacities of rice and mungbean crops 	Mymensingh
161	Fertilization recommendation for different mutants/lines developed by BINA	To evaluate the fertilizer use efficiency and to recommend different fertilizers for different mutants/lines	BINA substation farms
162	Effect of different fertilizer recommendation practices on crop and soil	To observe yield and soil quality and relate between soil test kit and lab. analytical methods	Mymensingh & Dinajpur (WRC, BARI)
163	Adsorption and desorption capacities of different nutrients and heavy metals using 10 AEZ soils	To compare the fertilizers and heavy metals sustained capacity in different soils of Bangladesh	Mymensingh
164	Identification and establish of reference site for reference inventories	To determine the reference inventories of ^{137}Cs , ^{210}Pb and ^7Be	Chittagong Hill Tracts (CHT) and Cox's Bazar, Sylhet, Comilla and Netrokona
165	Development of national database of Fallout Radio Nuclide (FRN) in soil and soil nutrient loss/gain in different time scale	To develop national soil erosion-deposition database in different places in Bangladesh	CHT and Cox's Bazar, Sylhet, Comilla and Netrokona
166	Measurement of soil and nutrient loss due to tillage practices by FRN techniques	To determine the loss of soil and nutrients due to soil erosion on cultivated slope	Khagrachari.

SI No.	Research Title	Objective(s)	Location
167	Determination of sediment source in a small catchment by Compound Specific Stable Isotope (CSSI) technique.	To determine source of sediment in a small catchment	Sutiakhali, Mymensingh
168	Effect of integrated nutrient management on soil fertility and productivity of Vegetable-T. Aus-T.Aman rice cropping pattern	To determine the fertilizer and moisture level for crops	Sutiakhali, Mymensingh
169	Effect of integrated nutrient and water management on the productivity and water use efficiency of Boro-Fallow-T. Aman cropping pattern	To determine the nutrient management and water use efficiency of crops	Sutiakhali, Mymensingh
Soil Micronutrients and Heavy Metals			
170	Effect of Zn, B and Mo on yield and nutrient uptake by rice and mungbean.	To assess the effect on yield and nutrient uptake by crops	BINA farm, and Rangpur
171	Residual effects of Zn and B fertilization on Wheat under Wheat-Mungbean-T.aman cropping pattern in calcareous soil	To assess the requirement and residual effect of Zn and B fertilization on crops in calcareous soil	Ishurdi and Magura (On-Farm)
172	Biofortification of Zn & Fe in rice, wheat and lentil by Zn & Fe fertilization and variety selection	To improve yield and biofortification of Zn & Fe in rice, wheat and lentil by Zn & Fe application and variety selection	Muktagacha, Mymensingh (On-Farm) Ishurdi (Sub-Station & On-Farm)
173	Evaluation of the methods of fertilization (seed, soil & foliar) for improvement of yield and Zn & Fe enrichment of grains	Evaluation of methods of fertilization (seed, soil and foliar) to improve yield and Zn & Fe enrichment in grains	Muktagacha, Mymensingh, (On-Farm) Ishurdi, (Sub-Station & On-Farm)
174	Micronutrient status of calcareous and non calcareous paddy soils and implication for human health through rice products	<ul style="list-style-type: none"> • To evaluate physicochemical characteristics of soils. • To measure total and DTPA-extractable micronutrient concentrations in paddy soils and their correlation between the DTPA-extractable metals with some soil properties • To evaluate transfer of Zn, Fe, Mn, and Cu from soil to plant • To determine human daily intake of metal via rice consumption 	

SI No.	Research Title	Objective(s)	Location
175	Requirement of zinc and boron application for Wheat-Mungbean-T. Aman Cropping Patterns	<ul style="list-style-type: none"> To determine the requirement of zinc and boron application for Wheat-Mungbean-T. Aman cropping patterns at Rangpur To assess nutrient uptake by 1st year crop cycle 	Rangpur (Sub-Station)
176	Requirement of zinc and Boron Application for Mustard- Boro-T. Aman Cropping Patterns	To determine the requirement of zinc and boron application for Mustard-Boro-T. Aman cropping patterns at Rangpur	Comilla (Sub-Station)
177	Response of micronutrient application on the yield of crops	To see the effects of Zn, B, Cu, Fe, Mn & Mo application on the yield of crops in Piedmont, Tista, Brahmaputra, Ganges and Meghna floodplain soils	Different AEZs of Bangladesh
178	Impact of arsenic contamination in soil, water and plant samples from contaminated STW & DTW areas	<ul style="list-style-type: none"> To determine the as level in soil, water and plant samples in the selected area. To determine soil and water properties (pH, texture, OM, P, K, S, FeO, and Mn, etc.) 	Faridpur, Gopalganj, Jessore, Satkhira and Netrokona
179	Assessment of heavy metal concentrations in agricultural land from industrial waste polluted area	<ul style="list-style-type: none"> To identify and amount of heavy metal concentration in agricultural soil To determine amount of heavy metal uptake by crop To determine heavy metal toxicity in soil 	Bhaluka, Mymensingh
180	Assessing the amount of micro & heavy metal content in rice and vegetable grown in industrial polluted areas	<ul style="list-style-type: none"> To identify amount of heavy metal concentration in agricultural soil To determine amount of heavy metal uptake by vegetable To determine heavy metal toxicity in vegetable 	Bhaluka, Mymensingh
Soil Physics			
181	Response of salt tolerant rice varieties to different nutrient management practices at saline areas in Bangladesh	<ul style="list-style-type: none"> To investigate the performance of different salt tolerant rice varieties in saline area. To know the effect of different irrigation water sources on the growth and yield of rice 	Satkhira
182	Response of salt tolerant rice varieties to potassium fertilizer practices at saline areas in Bangladesh	To investigate the performance of different salt tolerant rice varieties to potassium fertilizer application in saline area	Satkhira
183	Response of some submergence tolerant BINA rice varieties as affected by different water submergence duration in Haowr areas of Bangladesh	<ul style="list-style-type: none"> To investigate the performance of different submergence tolerant rice varieties in Haowr area To know the effect of different submergence duration on the growth and yield of rice 	Sunamganj
184	Effect of different irrigation management approaches on wheat production under saline using nuclear technique	<ul style="list-style-type: none"> To know the effect of different irrigation practices on wheat production To investigate the water use efficiency for wheat production To find out the effect of existing saline water on growth and yield of wheat and soil 	Satkhira and Mymensingh

SI No.	Research Title	Objective(s)	Location
Soil Microbiology			
185	Isolation and characterization of <i>Rhizobium</i> and <i>Bradyrhizobium</i> strains from garden pea and french bean and their effectiveness on host crops	<ul style="list-style-type: none"> Isolation of effective N-fixing rhizobia strains from root nodules of different pulse, french bean and green manuring crops Screening of most effective rhizobia strains for biofertilizer production 	Mymensingh
186	Determination of BNF potentials of different groundnut cultivars	To determine the nitrogen fixing ability of legume crops using ¹⁵ N technique	Mymensingh and Ishurdi (Sub-Station)
187	Isolation of growth promoting rhizobacteria (PGPR) and their characterization	To isolate highly efficient nitrogen fixing and growth hormone producing bacteria strains from soils of different AEZs	Mymensingh
188	Production of fluorescent antibody against different PGPR and rhizobia strains	To identify the specific strains rapidly in soil and mixed strains in biofertilizer	Mymensingh
189	Survival of PGPR strains in different temperature conditions	To determine the shelf life of PGPR biofertilizer in different temperature conditions	Mymensingh
190	Microbial population in soils of 7 new substations of BINA	Determination of nitrogen fixing, P solubilizing and growth hormone producing bacteria as well as total microbial population of bacteria, fungi, nematode and earthworms in soils	Mymensingh
191	Production of biofertilizer for lentil, chickpea, mungbean, blackgram, fallon, soybean and groundnut	To distribute the biofertilizers at farmers level	As per demand of stakeholders
192	Setting of demonstration on the effect of biofertilizers on host crops	To test the biofertilizers efficiency for increasing legume production	Mymensingh and different Sub-Stations of BINA
193	Isolation and characterization of salt and acid tolerant rhizobial/bradyrhizobial strains to use as biofertilizer in the saline and acid soils of Bangladesh	<ul style="list-style-type: none"> To isolate more efficient (salinity/acid tolerant) rhizobial/bradyrhizobial strains for biofertilizer production for saline and acid soils To isolate more N fixing rhizobia in saline and stress condition 	Mymensingh and different AEZs of Bangladesh
194	Isolation of indigenous PSM from diversified agro-ecological zones	To get a efficient PSM isolates for further evaluation	Ishurdi, Rangpur, Rajshahi, Mymensingh, Dinajpur and Khagrachari
195	Study of phosphate solubilization efficiency by PSM using ³² P tracer technique	To select highly efficient phosphate solubilizing PSM	Mymensingh

SI No.	Research Title	Objective(s)	Location
196	Multiplication of earthworms using different labelled (32P, 15N and 13C isotopes) organic materials	To select a suitable organic materials in which earth worms can multiply profusely using radio-active and stable isotope techniques	Mymensingh
197	Evaluation the influence of rhizobial strains on growth and yield of lentils at different regions	<ul style="list-style-type: none"> To evaluate the effect of Rhizobium sp on lentil growth and yield To find effective strains for better Bio-fertilizer production 	As per required locations
198	Effect of different Rhizobium strains on growth and yield of lentils at different sub-stations	<ul style="list-style-type: none"> To investigate the effect of Rhizobium sp on growth and yield of lentil To see the nodulation efficiency at field condition To see nitrogen fixation efficiency 	Ishurdi and Rangpur (Sub-Station)
199	Effect of different Rhizobium strains on growth and yield of pea	<ul style="list-style-type: none"> To investigate the effect of Rhizobium sp on growth and yield of pea To see the nodulation efficiency at field condition To see nitrogen fixation efficiency 	Ishurdi and Jessore (Sub-Station)
200	Isolation of country bean nodulating rhizobia from different districts of Bangladesh	<ul style="list-style-type: none"> To study genetic diversity and taxonomy To see the nodulation efficiency at glass house conditions To see symbiotic efficiency at glass house condition 	BINA Glass House

CROP PHYSIOLOGY DIVISION

<i>Physiological aspects of crop production</i>			
201	Photosynthesis, grain growth and leaf water parameters of some rice genotypes under water stress	<ul style="list-style-type: none"> To assess the effect of water stress on photosynthesis and grain growth of rice genotypes and To identify water stress tolerant genotypes 	Mymensingh
202	Effect of salinity on some physiological and biochemical characters of Aus rice genotypes at seedling and reproductive stages	To evaluate salt tolerant aus rice genotypes both physiologically and biochemically and to find out the basis for such tolerance	Mymensingh
203	Studies of local land races rice genotypes for salinity tolerance	To identify morpho-physiological characters responses against salinity	Mymensingh
204	Screening of soybean advanced mutants for salinity tolerance based on morpho-physiological characters	<ul style="list-style-type: none"> To assess the effect of salinity stress on growth and yield of soybean mutants / varieties To identify salinity stress tolerant soybean mutants 	Mymensingh
205	Identification of sesame genotypes for water logging tolerance based on physiological criteria	<ul style="list-style-type: none"> To assess the effect of water logging on sesame growth and development; and To identify water log genotypes of sesame 	Mymensingh

SI No.	Research Title	Objective(s)	Location
206	Effect of different levels of temperature on germination and root growth of rice varieties	To find out the optimum temperatures for germination and seedling growth of rice varieties	Mymensingh
207	Effect of high CO ₂ concentration on grain yield of high yielding boro rice varieties	To assess the effect of high CO ₂ on grain yield of boro rice varieties	Mymensingh
208	Morpho-physiological studies of some aus rice (local and HYV) varieties	To identify the physiological causes of lower yield in local genotypes compared to HYV	Mymensingh and Magura (Sub-Station)
209	Physiological evaluation of summer mungbean mutants/varieties	To assess the physiological potentiality compared to the released varieties of summer mungbean	Magura and Ishurdi (Sub-Station)
210	Physiological evaluation of lentil mutants/varieties	To assess the physiological potentiality compared to the released varieties of lentil	Magura and Ishurdi (Sub-Station)
211	Determination of amylose and protein content of rice mutants	To find out the status of amylose and protein content of selected mutants	Mymensingh
212	Nucleus seed production	To produce the nucleus/breeder seeds of Binadhan-13, Binamasur-3, Binamasur-4, Binamoog-7, Binatomato-6 and Binatomato-7	Mymensingh, Rangpur, Comilla, Jamalpur, and Nalitabari (Sub-Station)
213	Growth analysis and assimilate distribution of local and HYV aus rice varieties	To determine the translocation barrier among the aus rice genotypes	Mymensingh (pot expt.), Rangpur, Magura and Jamalpur
214	Growth analysis and assimilate distribution of local and HYV aman rice varieties/mutants	To determine the translocation barrier among the aman rice genotypes	Mymensingh (pot expt.), Rangpur, Comilla and Magura (Sub-Station)
215	Relationships of temperature, light and humidity with dry matter partitioning and yield in soybean genotypes	To determine the optimum canopy of soybean for higher yield	Mymensingh, Noakhali and Gopalganj (Sub-Station)
216	Measures to reduce grain sterility in rice based on physiological criteria	<ul style="list-style-type: none"> To study the relationship between dry matter production in ontogeny and the partitioning of assimilates into grain formation in rice; and To investigate the potential causes of poor grain filling of modern rice varieties 	Mymensingh, Ishurdi and Comilla (Sub-Station)
217	Physiology of tillering ontogeny and assimilate partitioning control in elite rice mutants/varieties	To investigate the control mechanism involve in assimilate partitioning competition among different classes of tillers	Mymensingh

SI No.	Research Title	Objective(s)	Location
218	Evaluation of same duration aman rice varieties based on morpho-physiological criteria	To find out the morpho-physiological superiority for higher yield and elucidate the physiological mechanisms of potential grain weight	Mymensingh, Ishurdi and Magura (Sub-Station)
219	Evaluation of same duration boro rice varieties based on morpho-physiological criteria	To find out the morpho-physiological superiority for higher yield and elucidate the physiological mechanisms of potential grain weight	Mymensingh, Chapai Nawabganj and Magura (Sub-Station)

AGRONOMY DIVISION

<i>Crop management and on-farm research</i>			
220	Determination of optimum spacing on growth and yield of sesame mutants	To find out optimum spacing for maximizing yield of sesame mutants	Magura and (2) Ishurdi (Sub-Station)
221	Comparative effect of direct seeding and transplanting of Binadhan-14 on the yield and yield contributing characters in late boro season	To find out the yield potentiality of Binadhan-14	Mymensingh, Rangpur, Magura and Comilla (Sub-Station)
222	Assessing optimum transplanting date for maximizing yield of Binadhan-14 (2 nd Year)	To find out optimum transplanting time for maximizing yield	Mymensingh, Magura and Rangpur (Sub-Station)
223	Determination of optimum spacing for growth and yield of soyabean lines	To find out the proper spacing for optimizing yield of the soya bean mutant lines	Mymensingh and Noakhali
224	Improving the yield of salt tolerant rice genotype/ variety through sloping bed transplanting and gypsum application	To find out the suitable management of transplanting arrangement for productivity improvement of rice under natural salinity condition	Shamnagor, Satkhira (On-Farm)
225	Amelioration of salinity stress of selected most salt tolerant rice genotype/variety through silicon application	To find out the suitable management for productivity improvement of rice under natural salinity condition	Shamnagor, Satkhira (On-Farm)
226	Effect of date of sowing on the yield and yield contributing characters of rice mutants/varieties in Aus season at drought prone areas	To observe the yield potentiality of rice mutants/varieties in drought prone areas	Godagari, Rajshahi & Nachole, Chapai Nawabganj

SI No.	Research Title	Objective(s)	Location
227	Effect of date of transplanting on the yield and yield contributing characters of rice mutants/varieties in T. Aman season at drought prone areas	To observe the yield potentiality of rice mutants/varieties in drought prone areas	Godagari, Rajshahi & Nachole, Chapai Nawabganj
228	Effect of different herbicide available in the market for Boro and Aus rice	To performance available herbicides in the market for Boro and Aus rice and also identify residues in soils and plants	Mymensingh
229	Effect of high temperature on the productivity of modern mutant Boro rice variety under pot culture	To observe the productivity status of BINA rice varieties at elevated temperature conditions	Mymensingh
230	Comparative studies on seed preservation methods by using nuclear technique	To develop proper seed maintenance technique to preserve seed in storage	Mymensingh
231	Truthfully labeled seed (TLS) production of released crop varieties of BINA through standard techniques	Quality seed production of released crop varieties of BINA through standard techniques	Mymensingh & All Sub-stations

PLANT PATHOLOGY DIVISION

<i>Plant protection and management</i>			
232	Use of nuclear techniques in plant disease management	To observe the effect of radiation on storage fungi and bio-control agents in crop protection	Plant Pathology Lab, Mymensingh
233	Enhancing the antagonistic potentiality in <i>Trichoderma</i> against <i>Rhizoctonia solani</i> of rice and <i>Fusarium oxysporum</i> of lentil through radiation	To enhance bio-control potentiality in antagonistic <i>Trichoderma</i>	Plant Pathology Lab, Mymensingh
234	Evaluation of <i>Trichoderma</i> mutant against sheath blight of rice and root rot of lentil under pot condition	To evaluate the potentiality of antagonists against sheath blight and root rot diseases	Mymensingh
235	Effect of gamma rays in reducing storage disease of sesame	To increase the storage capability of sesame by reducing storage fungi	Mymensingh
236	Influence of gamma radiation on post harvest disease incidence of onion	To reduce decay caused by post harvest fungal pathogens in onion	Mymensingh
237	Evaluation of disease status of irradiated seeds of tomato, okra and onion	To know the effect of radiation on seed-borne diseases of vegetables and spices	Mymensingh

SI No.	Research Title	Objective(s)	Location
238	Integrated management of plant diseases	To develop eco-friendly disease management packages for crop plants	Mymensingh
239	Integrated management of sheath blight of rice	To develop suitable disease management method for sheath blight	Mymensingh, Magura
240	Integrated management of <i>stemphylium</i> blight of lentil	To develop suitable disease management method for <i>stemphylium</i> blight	Mymensingh, Ishurdi
241	Screening and evaluation of breeding materials against major diseases	To identify induced mutants with quantitative resistance to different major pathogens	Mymensingh
242	Evaluation of advanced mutants and lines of rice against bacterial leaf blight, sheath blight and blast (Aman, 2015)	To evaluate the level of field resistance/tolerance of advanced mutants and lines of rice against the diseases under inoculated condition	Mymensingh, Magura and Rangpur
243	Screening of advanced mutants and lines of rice against bacterial leaf blight, sheath blight and blast (Boro, 2015-16)	To evaluate the level of field resistance/ tolerance of advanced mutants and lines of rice against the diseases under inoculated condition	Mymensingh, Shatkhira and Barishal
244	Evaluation of advanced mutants and lines of rice against bacterial leaf blight, sheath blight and blast (Aus, 2016)	To evaluate the level of field resistance /tolerance of advanced mutants and lines of rice against the diseases under inoculated condition	Jamalpur and Ishurdi
245	Identification of resistance of some groundnut mutants /varieties against <i>cercospora</i> leaf spot and collar rot diseases	To identify the sources of resistance in induced mutants/varieties of groundnut against the diseases	Mymensingh
246	Screening of sesame mutants against stem rot, yellow mosaic and foot rot and wilt diseases	To identify the sources of resistance in induced mutants of sesame against stem rot, yellow mosaic, foot rot and wilt diseases	Ishurdi, Gopalganj and Jessore
247	Performance of some mutant lines of soybean for resistance against <i>cercospora</i> leaf spot, collar rot and yellow mosaic	To evaluate the level of field resistance of some advanced mutants of soybean in inoculated condition.	Magura and Noakhali
248	Screening of mustard- rapeseed mutants against <i>alternaria</i> blight	To identify the sources of resistance in induced mutants of mustard	Mymensingh and Ishurdi
249	Evaluation of advanced mutants of chickpea against root rot, wilt and BGM	To identify the sources of resistance in induced mutants of chickpea to root rot, wilt and BGM diseases under inoculated condition	Ishurdi and Magura
250	Evaluation of promising mutants of mungbean against root rot, <i>cercospora</i> leaf spot and	To identify the sources of resistance in induced mutants of mungbean to the diseases under inoculated condition	Magura and Barishal

SI No.	Research Title	Objective(s)	Location
	yellow mosaic		
251	Evaluation of advanced mutants of lentil against root rot and <i>stemphylium</i> blight	To identify the sources of resistance in induced mutants of lentil to root rot and <i>stemphylium</i> blight diseases under inoculated condition	Ishurdi and Magura
252	Field evaluation of mutants (M ₈) of onion against purple leaf blotch and <i>stemphylium</i> blight	To identify the sources of resistance in induced mutants of onion to purple leaf blotch and <i>stemphylium</i> blight	Mymensingh, Ishurdi, Rangpur and Chapi Nawbganj
253	Induction of disease resistance in rice and groundnut through gamma-radiation	To induce disease resistance in high yielding but susceptible cultivars of rice and groundnut through nuclear techniques	-
254	Evaluation of disease reaction of M ₂ generation of rice against BLB	To develop resistant varieties of rice against BLB	Mymensingh
255	Evaluation of disease reaction of irradiated seeds of groundnut against <i>cercospora</i> leaf spot	To develop resistant varieties of groundnut against <i>cercospora</i> leaf spot	Mymensingh
256	Introgression of disease resistant gene into the elite variety of rice through Marker Assisted Backcrossing	<ul style="list-style-type: none"> • To develop bacterial leaf blight resistant variety • Bacterial leaf blight resistant variety/line • Bacterial leaf blight susceptible but high yielding 	Mymensingh
257	Pathogenicity test of different isolates of <i>Xanthomonas oryzae</i>	Twenty isolates of <i>Xanthomonas oryzae</i> collected from rice growing area of Bangladesh	Mymensingh
258	Hybridization of BLB resistant line/cultivar with BLB susceptible but high yielding cultivar	To test the hybridity	Mymensingh

ENTOMOLOGY DIVISION

Pest management			
259	Screening of rice and wheat mutants for tolerance to major insect pests	<ul style="list-style-type: none"> • To identify the sources of tolerance in rice and wheat plants against the major pests such as brown plant hopper, green leaf hopper, rice hispa, stem borer, gall midge, leaf roller, thrips, aphid and termite • To find out the causes of tolerance/resistance 	
260	Evaluation of rice varieties/mutants against stem borer, gall midge and brown plant hopper under saline area	To identify the stem borer, gall midge and brown plant hopper tolerant line(s)	Shatkira (Sub-Station)
261	Evaluation of advanced mutants of rice for tolerance to rice hispa under artificial infested	To identify the drought tolerant mutants of rice for tolerance to rice hispa under artificial infested condition	Mymensingh

SI No.	Research Title	Objective(s)	Location
	condition		
262	Evaluation of advanced mutants of rice for tolerance to brown plant hopper under artificial infested condition	To identify the advanced mutants of rice for tolerance to brown plant hopper under artificial infested condition	Mymensingh
263	Evaluation of two promising mutants of rice B-10 and B-11 for tolerance to rice hispa under artificial infested condition	To identify the two promising mutants of rice B-10 and B-11 for tolerance to rice hispa under artificial infested condition	Mymensingh
264	Evaluation of salt tolerant mutants of wheat for tolerance to major insect pests under field condition	To identify the salt tolerant mutants of wheat for tolerance to major insect pests under field condition	Mymensingh
265	Screening of radiation induced spices and vegetables for tolerance to their major insect pests	To find out spices and vegetables for tolerance to their major insect pests	-
266	Evaluation of summer onion mutants for tolerance to thrips and aphid under field condition	To identify the sources of tolerance in onion against their major insect pests	Mymensingh
267	Evaluation of chilli mutants/lines for tolerance to thrips and aphid under field condition	To identify the chilli lines for tolerance to thrips and aphid under field condition	Mymensingh
268	Evaluation of tomato mutants for tolerance to tomato fruit borer under field condition	To identify the tomato mutants/lines tolerance to tomato fruit borer under field condition	Mymensingh, Ishurdi and Magura
269	Evaluation of brinjal mutants for tolerance to brinjal shoot and fruit borer (BSFB) under field condition	To identify the brinjal lines for tolerance to brinjal shoot and fruit borer (BSFB) under field condition	Mymensingh, and Jamalpur (On-Farm)
270	Screening of pulse crops for tolerance to major insect pests	<ul style="list-style-type: none"> To identify the chickpea mutants/lines for tolerance to major insect pests, such as cut worm and pod borer. To identify the mungbean mutants tolerance to white fly, jassids, leaf hopper and pod borer. 	Mymensingh, and Jamalpur (On-Farm)
271	Evaluation of chickpea mutants for tolerance to cutworm and pod borer under drought area	To identify the chickpea mutants for tolerance to cutworm and pod borer under field condition	Jamalpur and Rajshahi
272	Evaluation of mungbean mutants / varieties against pod borer, hairy caterpillar, leaf roller,	To identify tolerance lines against pod borer, hairy caterpillar, jassid, whitefly	Khagrachori, Ishurdi and Magura (On-Farm)

SI No.	Research Title	Objective(s)	Location
	jassid and whitefly under hilly area and other mung growing areas		
273	Screening of oil seed crops for tolerance to major insect pests	<ul style="list-style-type: none"> To identify mustard mutants resistant to major insect pests such as cut worm, aphid, hairy caterpillar saw fly and diamond back moth To identify groundnut mutants resistant to thrips, jassids and leaf roller To identify soybean mutants resistant to cabbage looper hairy caterpillar and pod borer To identify sesame mutants resistant to leaf roller, til hawk moth and pod borer, hairy caterpillar To find out the causes of resistance (morphological and biochemical) 	-
274	Evaluation of mustard/rapeseed mutants/strains for tolerance to aphid, common cutworm and sawfly under field and artificial condition	<ul style="list-style-type: none"> To identify mustard mutants for tolerance to common cutworm, aphids and sawfly 	Mymensingh, Comilla, Jamalpur and Rangpur
275	Evaluation of salt and drought tolerant mutants of groundnut for tolerance to hairy caterpillar, leaf roller, jassid and aphid under field condition	To identify salt and drought tolerant mutants of groundnut against, jassid, leaf roller, hairy caterpillar and aphid	Noakhali, Ishurdi and Kishoregon (On-Farm)
276	Evaluation of different soybean mutants for tolerance to common cut worm, hairy caterpillar and leaf roller under field condition	To identify soybean mutants tolerance to major insect pests such as common cut worm, hairy caterpillar and pod borer	Mymensingh, Magura and Noakhali
277	Evaluation of mutant/varieties of sesame for tolerance to leaf roller, hawk moth, pod borer and hairy caterpillar under field condition	To identify sesame mutants tolerance to leaf roller, til hawk moth, pod borer and hairy caterpillar	Mymensingh, Rangpur and Ishurdi
278	Genetic control of insect pests with special reference to Sterile Insect Technique (SIT) and Radiation-induced F ₁ -sterility	<ul style="list-style-type: none"> To develop the method of radiation induced F₁ sterility for area-wide control of some Lepidopteran pests Control of cucurbit fruit fly and some other pests by applying Sterile Insect Technique (SIT) in Bangladesh 	Mymensingh
279	Effect of gamma radiation for controlling fruit fly (<i>Bactrocera cucurbitae</i>)	<ul style="list-style-type: none"> To control the insect pests without using pesticides To protect the environment from the pollution of pesticides 	Mymensingh
280	Determination of effective radiation dose	<ul style="list-style-type: none"> To control the insect pests without using pesticides 	Mymensingh

SI No.	Research Title	Objective(s)	Location
	(s) for controlling pulse beetle (<i>Callosobruchus chinensis</i>)	<ul style="list-style-type: none"> To protect the environment from the pollution of pesticides 	
281	Development of botanical pesticide	To develop insecticides from indigenous plants and use them to control the insect pests in storage as well as in the field so that the environmental pollution can be minimized	Mymensingh
282	Effect of some plant extracts to control stored and field pests.	To find out the effectiveness of plant extracts for the control of stored and field pests	Entomology Laboratory, Mymensingh
283	Development of a suitable control methods of rice, pulses, oilseeds, spices and vegetables crops against their major insect pests	<ul style="list-style-type: none"> To study, compare and develop specific insect control methods including chemical control (insecticides), biological control and cultural control To study the compatibility of the various insect control methods with the aim of selecting the combination(s) which will provide effective and economical insect control or management without producing any serious environmental contamination 	Entomology Laboratory, Mymensingh
284	Management of major insect pests of brinjal, tomato and different cucurbit vegetables by using IPM packages	<ul style="list-style-type: none"> To manage the insect pests economically and environment friendly 	Mymensingh, Jamalpur and Sherpur (On-Farm)
285	Efficacy of different insecticides and other management practices against brown plant hopper (BPH) of rice	To find out a suitable insecticide and effective doses for the control of BPH	Mymensingh
286	Management of pod borer of chickpea through chemicals, plant extracts and other alternative practices	To find out a suitable insecticide and effective dose(s) for the control of pod borer in chickpea mutant/varieties	Godagari, Rajshahi (On-Farm) and, Jamalpur (Sub-Station)
287	Investigation on the fate and persistence of pesticide residues in agro-ecosystem	<ul style="list-style-type: none"> To identify the residue level of different persistent and non-persistent pesticides in some major crops To identify the non-effective, less effective and hazardous pesticides commonly used for major crops in Bangladesh 	-
288	Residue analysis of some common pesticides used for the production of brinjal, tomato and cucumber in Bangladesh	To identify the persistent and non-persistent pesticides commonly used for major crops under laboratory and field conditions	Mymensingh

ADAPTIVE RESEARCH AND EXTENSION DIVISION

Technology transfer and impact assessment			
289	Adaptive Trials/Block Farming with rice varieties developed by BINA	<ul style="list-style-type: none"> To assess the technologies/rice varieties in special situations or sites evaluating farmers reactions 	Bagerhat, Bhola, Borguna, Cox's Bazar, Satkhira,

SI No.	Research Title	Objective(s)	Location
290	Adaptive trials with Aman rice, Binadhan-7, Binadhan-15 and Binadhan-16 and Binadhan-17 in collaboration with the DAE	<ul style="list-style-type: none"> To demonstrate the specific advantages of crop production technologies/released rice varieties To encourage farmers for adopting the crop production technologies/ released rice varieties To provide feedback information to concerned scientists about their technology To establish relationship between BINA and Extension Agencies 	Jamalpur, Kishorganj, Magura, Mymensingh, Tangail, Sherpur, Netrokona, Rangpur, Barisal, Bogra, Bramhonbaria Chittagoan, Chuadanga, Dinajpur, Faridpur, Feni Gaibandha, Habigonj, Jessore, Jhalakathi, Jhenaidah, Khulna, Kurigram, Kushtia, Lakhmipur, Lalmonirhat, Madaripur, Manikgonj Moulabibazar, Narail, Nilfamari Noakhali, Pirojpur, Potuakhali, Serajgonj, Sherpur, Sylhet, Sunamgonj, Thakurgaon
291	Adaptive trials with submergence tolerant T. aman rice, Binadhan-11 and Binadhan-12 in collaboration with the DAE		
292	Adaptive trials with Aromatic rice, Binadhan-13 in collaboration with the DAE		
293	Adaptive trials with salt tolerant Boro rice, Binadhan-8 and Binadhan-10 in collaboration with DAE		
294	Adaptive trials with high yielding late transplanting Boro rice, Binadhan-14 in collaboration with DAE		
295	Block Farming with improved short durative T. aman rice, Binadhan-7 in collaboration with DAE		
296	Block Farming with improved submergence tolerant T. aman rice, Binadhan-11 in collaboration with DAE		
297	Block Farming with salt tolerant boro rice, Binadhan-8 and Binadhan-10 in collaboration with DAE		
298	Block Farming with high yielding late transplanting Boro rice, Binadhan-14 in collaboration with DAE		
299	Adaptive Trials/Block Farming with oil seeds and vegetable varieties developed by BINA	<ul style="list-style-type: none"> To assess the varieties in special situations or sites evaluating reactions of farmers and extension personnel To demonstrate specific advantages of crop varieties to the farmers To encourage farmers for accelerated adoption of crop varieties To provide feedback information 	Mymensingh, Tangail, Rangpur, Magura, Manikgonj, Jhenaidah, Satkhira, Khulna, Khagrachori,
300	Adaptation Trials with newly released mustard variety Binasarisha-9 and Binasarisha-10 in collaboration with DAE		

SI No.	Research Title	Objective(s)	Location
301	Adaptation Trials with sesame varieties Binatil-1, Binatil-2 and Binatil-3 in collaboration with DAE	<ul style="list-style-type: none"> To establish better relationship between BINA and Extension Agencies 	Comilla, Noakhali, Chandpur, Lakhmipur, Netrokona, Kishorganj, Gazipur, Sherpur, Lalmonirhat, Pabna, Serajgonj, Natore, Dinajpur, Thakurgaon, Panchhogar, Kushtia, Meherpur, Chuadanga, Faridpur, Gopalganj, Manikgonj, Jessore, Cox's Bazar
302	Adaptation Trials with newly released salt tolerant groundnut varieties Binachinabadam-7, 8 & 9 in collaboration with DAE		
303	Adaptation Trials with soybean varieties Binasoybean-1, Binasoybean-2 Binasoybean-3 and Binasoybean-4 in collaboration with DAE		
304	Adaptation Trials with newly released tomato variety Binatomato-10 in collaboration with DAE		
305	Block Farming with mustard variety Binasarisha-4 in collaboration with DAE		
306	Block Farming with sesame variety Binatil-2 in collaboration with DAE		
307	Block Farming with groundnut variety Binachinabadam-4 in Kharif-1 and kharif-2 in collaboration with DAE		
308	Block Farming with salt tolerant groundnut variety Binachinabadam-6 in Kharif-1 in collaboration with DAE		
309	Adaptation Trials/Block Farming with pulse crop varieties developed by BINA	<ul style="list-style-type: none"> To familiarize BINA developed pulse varieties to the potential growers To demonstrate specific advantages of the BINA pulse varieties to the farmers To motivate farmers about the benefit of full swing use of recommendation for cultivation of BINA pulse variety through training program To collect feedback information about the demonstrated variety for further refinement 	Rajshahi Chapai Nawbabganj Pabna, Rajbari Natore, Bogra, Dinajpur, Thakurgaon, Kushtia, Chuadanga, Narail, Faridpur, Madaripur, Jessore, Magura,
310	Adaptation Trials with newly released mustard variety Binamasur-8 & 9 in collaboration with DAE		
311	Block farming of chickpea variety Binasola-4 and Binasola-		

SI No.	Research Title	Objective(s)	Location
	6 in major the growing areas of Bangladesh		Jhenaidah, Barisal, Jhalakathi, Bhola, Borguna, Potuakhali
312	Block farming of lentil variety Binamasur-5 in major growing areas of Bangladesh		
313	Block Farming of Binamoog-7 in southern belt of Bangladesh		
314	Block Farming of Binamoog-8 in the major growing areas of Bangladesh		
315	Impact assessment of BINA developed some popular varieties/ technologies	<ul style="list-style-type: none"> To ascertain the adoption level/attitude of the farmers towards the technologies under varied socio-economic conditions To determine the constraints affecting adoption of varieties/technologies To provide feedback information of varieties/technologies 	Satkhira, Bagerhat and Cox's Bazar, Jessore, Faridpur, Kushtia, Jhenaidah, Narail and Chuadanga, Kishorganj, Natore and Lalmonirhat, Jhalakhati, Magura, Pabna and Natore
316	Factors affecting adoption of Binadhan-7 in some selected areas		
317	Factors affecting adoption of Binadhan-10 in some selected areas		
318	Factors affecting adoption of Binasarisha-4 in some selected areas		
319	Factors affecting adoption of Binachinabadam-4 in some selected areas		
320	Factors affecting adoption of Binamoog-8 in some selected areas		
321	Establishment of BINA - technology Villages in surrounding areas of BINA HQ and its sub-stations	<ul style="list-style-type: none"> To establish BINA-Technology pilot area in surrounding villages of BINA HQ and its sub-stations for extension of BINA developed technologies To improve farmers socio-economic status by motivating adoption of BINA technologies To include BINA technologies in the existing cropping pattern To demonstrate field performance of BINA technologies to the visitors To extend promising mutant varieties among the farmers through seed exchange programme 	Mymensingh, Magura, Ishurdi, Satkhira, Rangpur, Comilla, Sunamgonj, Jamalpur, Barishal, Noakhali, Gopalganj, Khagrachhari, Chapai Nawabganj, Nalitabari
322	Adaptative Trials / Block Farming with BINA varieties/ technologies		
323	Publications, photography, multi-media and laboratory enrichment	<ul style="list-style-type: none"> To publish BINA's Journal, Annual Report, booklets, leaflets etc To publicize BINA generated technologies through multimedia, print media and electronic media 	

SI No.	Research Title	Objective(s)	Location
		<ul style="list-style-type: none"> To develop photographic materials related to transferable technology 	

HORTICULTURE DIVISION

Improvement of Horticultural Crops			
324	Varietal improvement of tomato using induced mutation and advanced techniques	<ul style="list-style-type: none"> To develop varieties with high yield potential Longer harvesting duration, longer self- life 	Mymensingh, Magura, Comilla & Khagrachari (On-Farm & On Station)
325	Varietal improvement of okra (Lady's finger) using induced mutation and advanced techniques	<ul style="list-style-type: none"> To develop varieties with high yield potential Early fruit bearing Tolerance to fruit borer Longer harvesting duration Increase of softness (soft fiber) Small size with good taste 	Mymensingh
326	Varietal improvement of eggplant (Brinjal) using induced mutation and advanced techniques	<ul style="list-style-type: none"> To develop varieties with high yield potential Tolerance to shoot and fruit borer Early fruit bearing 	Mymensingh
327	Varietal improvement of chili using induced mutation and advanced techniques	<ul style="list-style-type: none"> To develop mutant varieties with High yield potential High pungency Resistance to Anthracnose 	Mymensingh, Comilla, Khagrachari, Bogra and Magura
328	Collection and screening of local and exotic germplasms of fruits, vegetables, spices and flowers	Collection of seeds of fruits, vegetables, spices and flowers from different regions of the country	Mymensingh & Khagrachari
329	Radio-sensitivity of horticultural crops for mutation induction	<ul style="list-style-type: none"> To establish dose range of gamma irradiation for induced mutation To determine LD50, GR50, GR30 	Mymensingh
330	Varietal improvement of papaya using induced mutation and advanced techniques	<ul style="list-style-type: none"> To develop varieties with high yield potential Early fruit bearing & Tolerance to YMV Longer harvesting duration Increase sweetness 	Khagrachari, Comilla
331	Accelerating breeding for mutation induction in cucurbits	To develop haploid and doubled haploid production	Mymensingh

AGRICULTURAL ENGINEERING DIVISION

Irrigation and water management			
Irrigation management for pulse and oil-seed crops			
332	Response of sesame mutants to water-logging at different growth stages	<ul style="list-style-type: none"> To study the response of sesame to water-logging To determine the critical stages of sesame for water-logging 	Mymensingh & Magura

SI No.	Research Title	Objective(s)	Location
333	Response of sesame mutants to water-logging of different durations	<ul style="list-style-type: none"> To study the response of sesame to water-logging To determine the critical stages of sesame for water-logging 	Mymensingh & Magura
Water management for cereals			
334	Comparative assessment of water saving in Binadhan-14 (A Braus variety)	To find out the water savings by Binadhan-14 compared to conventional cultivars	Mymensingh, Comilla, Ishurdi, Rangpur
335	¹³ C isotopic discrimination of Wheat variety at varying water stress in lysimeter	To evaluate wheat plants for their tolerance to water stress at different growth stages	Mymensingh
336	Studies on drought tolerance of NERICA mutants and Binadhan-17 (GSR) in Aus and Aus season	<ul style="list-style-type: none"> To study the response of GSR and NERICA mutants to water-stress To determine the critical stage(s) of GSR & NERICA mutants to water-stress To develop appropriate water management strategy for GSR & NERICA mutants 	Rajshahi, Chapai Nawabganj & Mymensingh
Studies on groundwater recharge for sustainable use of groundwater using tracer and other advanced techniques		<ul style="list-style-type: none"> To quantify natural groundwater recharge from rainfall To determine rainfall-recharge relationship To suggest sustainable use of groundwater based on actual recharge 	
337	Quantifying natural groundwater recharge using tracer technique		Mymensingh
338	Estimation of groundwater recharge using Lysimeter		Mymensingh
339	Studies on water-table dynamics at BINA HQ and sub-stations		BINA sub-station areas
Studies on Water quality for sustainable use		<ul style="list-style-type: none"> To determine water quality parameters throughout the year To suggest sustainable use of water 	
340	Estimating temporal pattern of groundwater quality at different BINA sub-stations		BINA sub-station areas
Development of appropriate water management practices for increasing crop water productivity in saline area			
341	Irrigation management for wheat under saline condition	To find out the effect of brackish water on wheat yield at different water management practices	Satkhira, Mymensingh
342	Studies on different levels of amendment to ameliorate the salinity effect to cultivate salt tolerant HYV rice	To evaluate the response of different levels of amendment to ameliorate the salinity effect	Mymensingh (Lysimeter study)

SI No.	Research Title	Objective(s)	Location
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AGRICULTURAL ECONOMICS DIVISION

Socio-economic research			
343	Potential productivity and yield gap of Bina soybean-2 in the research station and farm level	<ul style="list-style-type: none"> To identify the profitability of Bina soybean-2 To determine the yield gap of Binsoybean-2 in the research station and farm level To suggest key strategies to minimize the yield gap 	Noakhali, Laxmipur, Chandpur, Barisal & Comilla
344	Economic efficiency of Binamoog-8 in some selected areas of Bangladesh	<ul style="list-style-type: none"> To estimate the productivity and profitability of Binamoog-8 To examine the technical, allocative and economic efficiency of Binamoog-8 To suggest some policy and recommendation 	Ishwardi, Natore, Rajshahi, Magura & Jessore
345	Economic feasibility of mustard cultivation in some areas of Bangladesh	<ul style="list-style-type: none"> To identify the cost and return of mustard cultivation To determine the relative profitability of mustard cultivation with major competing crops To estimate the comparative advantage of mustard cultivation in Bangladesh 	Sirajganj, Pabna, Magura & Tangail
346	Economic study of Submergence Tolerant Rice Variety Binadhan-11	<ul style="list-style-type: none"> To study the cost and return of the variety To find out the contribution of the variety on farmers income and national income To identify the factor that affects the yield of Binadhan-11 	Mymensingh, Sherpur, Jamalpur & Kurigram
347	Economic impact assessment of BINA released mungbean varieties	<ul style="list-style-type: none"> To estimate the social benefits associated with BINA released mungbean varieties To examine the rate of return from BINA released mungbean varieties To assess the economics of mungbean Binamoog production 	Magura, Meherpur, Ishwardi & Natore
348	Adoption of BINA Released Crop Varieties in Mymensingh District	<ul style="list-style-type: none"> To assess the adoption level of BINA released crop varieties in Mymensingh District To identify the farmers preferences and constraints for cultivation of these variety; and To find out the key strategies to overcome the constraints 	Mymensingh Sadar, Gouripur, Fulpur, Muktagacha & Fulbaria upazila

BANGLADESH SUGARCROP RESEARCH INSTITUTE

BANGLADESH SUGARCROP RESEARCH INSTITUTE

BREEDING DIVISION

Sl No.	Research Title	Objective(s)	Location
Collection and Preservation			
1		Collecting and conserving indigenous and exotic germplasm for using breeding programme	Ishurdi, Pabna (HQ) and Gazipur (RSRS)
2	Characterization and documentation of sugarcane genetic resources	Assessing the genetic diversity of different sugarcane germplasm for future breeding programme	Ishurdi, Pabna
3	Breeding for high sugar and high yielding varieties of sugarcane	<ul style="list-style-type: none"> • Developing improved varieties of sugarcane for higher cane, sugar and goor yield • Selecting short duration , dwarf and lodging tolerant variety of sugarcane 	Ishurdi, Pabna
4	Breeding for drought tolerant varieties of sugarcane	Developing varieties tolerant to drought condition	Ishurdi and Rajshahi
5	Breeding for salt tolerant varieties of Sugarcane	Developing varieties tolerant to salinity condition.	Ishurdi and Khulna
6	Development of self-detrashing sugarcane varieties through hybridization and selection	<ul style="list-style-type: none"> • Improving the quality of cane, sugar and goor • Reducing the cost of cultivation 	Ishurdi
7	Evaluation of promising clones under different yield trials at different agro- climatic conditions	<ul style="list-style-type: none"> • Determining the performance of the clones under varying agro-climatic conditions • Selecting location specific variety and • Determining the ratooning potential of the clones 	Ishurdi, Rajshahi, Thakurgaon (RSRS) , Carew & Co., Joypurhat, Gazipur, Jamalpur and Khulna
8	Photoperiodic regulation of flowering in sugarcane	<ul style="list-style-type: none"> • Inducing flower at early in mid and late flowering genotypes • Inducing flower at late in early flowering genotypes • Inducing flower in sparse and non-flowering genotypes and • Synchronizing the flowering time of different genotypes 	Ishurdi
9	Development of sugarcane parent materials through inbreeding, cross-breeding and nobilization	<ul style="list-style-type: none"> • Developing parent materials from the inbred lines of exotic and indigenous germplasm of sugarcane • Developing parent materials from the intraspecific crossing of officinarum species • Developing parent materials from the interspecific crossing of officinarum and spontaneum species • Developing disease tolerant, high tillering and 	Ishurdi, Pabna

SI No.	Research Title	Objective(s)	Location
		good ratooning ability variety(s) of sugarcane and <ul style="list-style-type: none"> Increasing the scope of hybridization through parent material development. 	
10	Varietal improvement through mutation breeding	Developing variety having high sucrose content and tolerant to red rot disease	Ishurdi, Pabna
11	Evaluation of sugarcane clones as goor variety for hill districts	<ul style="list-style-type: none"> Evaluating the sugarcane clones for high quality goor production in hill tracts Selecting suitable goor variety for commercial cultivation 	Bandarban
12	Selection of sugarcane clone as chewing variety	<ul style="list-style-type: none"> Developing location specific chewing variety Evaluating and Selecting different clone(s) for the development of chewing variety 	Ishurdi, Khagrachari, Gazipur and Natore
13	Seed multiplication of promising clones/ varieties of sugarcane	<ul style="list-style-type: none"> Supplying seeds of the promising clones for setting up of different experiments and further multiplication; Producing clean seed for nucleus seed program and Maintaining the source of clean seed of released varieties. 	Ishurdi and Thakurgaon (RSRS)
14	Rejuvenation of degenerating sugarcane germplasm through <i>in vitro</i> culture	Regeneration of the degenerating varieties/ clones of sugarcane	Ishurdi, Pabna
15	Creation of genetic variability in sugarcane using inflorescence / somatic tissue	<ul style="list-style-type: none"> Developing genotypes having improved characteristic (biotic and abiotic stress tolerant) Enriching germplasm bank. 	Ishurdi, Pabna
16	<i>In vitro</i> preservation of sugarcane germplasm	<ul style="list-style-type: none"> Preserving the genetic materials in <i>in vitro</i> condition Selecting the suitable media composition for <i>in vitro</i> preservation 	Ishurdi, Pabna
17	Identification of red rot resistant germplasm of sugarcane using ssr markers	<ul style="list-style-type: none"> Identifying germplasm resistant to red rot disease for using hybridization program Introgression of resistance gene through conventional breeding program 	Ishurdi, Pabna
18	Flower induction in sugar beet through vernalization	<ul style="list-style-type: none"> Determining the specific root age for flower initiation Inducing flower in sugar beet and pollen viability testing 	Ishurdi, Pabna
19	Collection and conservation of indigenous and exotic germplasm of date palm and palmyra palm	Collection and conservation of indigenous and exotic elite crops of sugar beet, date and palmyra palms for increasing the scope of hybridization/propagation	Ishurdi, Pabna and Gazipur (RSRS)
Biotechnology			
20	Genetic transformation of salt and drought tolerant	<ul style="list-style-type: none"> Collection and maintenance of Agrobacterium strains with salt and drought tolerant genes Transformation of salt and drought tolerant 	BSRI, BAU and DU Lab

SI No.	Research Title	Objective(s)	Location
		<ul style="list-style-type: none"> genes in sugarcane • Confirmation of transformation and expression of salt and drought tolerant genes in sugarcane; and • Transgenic sugarcane development 	
21	Characterization and Documentation of sugarcane using molecular markers	<ul style="list-style-type: none"> • Identification of sugarcane varieties, active germplasm and developed somaclones through DNA Fingerprinting • Determination of genetic diversities among the sugarcane varieties, active germplasm and somaclones using molecular markers • Documentation of sugarcane varieties based on molecular markers; and • Developing Marker Assisted Selection (MAS) method for sugarcane 	BSRI, BAU and BJRI Lab
22	Genetic enhancement of sugarcane through Development of stress tolerant somaclones and their field evaluation	<ul style="list-style-type: none"> • Development of somaclones under selection pressure using NaCl, polyethylene glycol and mutagenic agents • Evaluation and selection of somaclones for salinity and drought as well as sugarcane somaclones with desirable traits • Genetic enhancement for salinity, drought tolerance and desirable traits in sugarcane 	BSRI Lab, (Pot & Field), Terokhada-Khulna and Barind Tract Rajshahi
23	Development and screening of Sugarcane somaclones against red rot disease	<ul style="list-style-type: none"> • Development of somaclones under in vitro selection pressure for red rot tolerance in sugarcane • Evaluation and selection of red rot tolerant somaclones; and • Finding out red rot tolerant sugarcane somaclones 	BSRI Lab and Field
24	Micropropagation of sugarcane varieties for rapid multiplication and high quality seeds (hqs) production	<ul style="list-style-type: none"> • Optimizing variety specific media for micropropagation • Production of micropropagated plants for high quality seed • Evaluating field performances of micropropagated plants 	BSRI Lab and Field
25	Micropropagation for vegetative seed production of sugarbeet	<ul style="list-style-type: none"> • Identifying the suitable sources of explants for micropropagation • Finding out the suitable media for micropropagation • Developing tissue culture protocols for micropropagation of Sugarbeet and • Hardening plantlets for transplanting 	BSRI Lab and Pot
26	Tissue culture for multiplication of arabian date palm	<ul style="list-style-type: none"> • Identification of suitable sources of explants • Finding out the suitable media • Production of plantlets; and • Developing tissue culture protocols for Arabian Date Palm 	BSRI Lab and Pot
AGRONOMY AND FARMING SYSTEM DIVISION			
27	Agronomic evaluation of	<ul style="list-style-type: none"> • To study the comparative performance of 	Ishurdi, Pabna

SI No.	Research Title	Objective(s)	Location
	bsri developed promising sugarcane clones	different promising clones under conventional method • Finding out the optimum time of planting for advanced promising clones of sugarcane • Generating agronomic information to meet up the requirement of National Seed Board	
28	Productivity of early planted sugarcane as intercrop with maize	• To determine the optimum sowing time of maize in sugarcane field • Increasing productivity and interim economic benefit per unit area and time of sugarcane cultivation	Ishurdi, Pabna, Chuadanga and Thakurgoan (RSRS)
29	Efficacy of herbicides for controlling weeds in sugarcane	• To study the performance of herbicides in controlling weeds in sugarcane field • Comparing cultural and chemical methods of weed control in respect of efficiency and cost of weed control • Study the abundance of weed species in the sugarcane field	Ishurdi and Jamalpur
30	Effect of different management practices on growth, yield and quality of plant and ratoon cane	• Studying the effect of different management practices on growth, yield and quality • Comparing growth, yield and quality of cane in different management practices	Ishurdi, Pabna
31	Field performance of summer planted sugarcane	• Determining the effect of late plantation on growth and yield of sugarcane • Find out suitable techniques for cultivating summer sugarcane	Ishurdi, Pabna
32	Suitability of sustainable sugarcane initiative (ssi) in bangladesh	• Identifying suitable sugarcane varieties for Sustainable Sugarcane Initiative (SSI) • Reducing the cost of Production and increase the yield of Sugarcane	Ishurdi
33	Determination of sugarbeet planting time for adjusting with the crushing period of sugarmills	• Finding out optimum planting time of tropical sugarbeet varieties • To adjust the crushing time of sugarbeet and sugarcane	Ishurdi and Thakurgaon (RSRS)
34	Study on growth performance of different tropical sugarbeet varieties	• Determining the growth performance of tropical sugarbeet varieties at different times • Selection of suitable sugarbeet varieties based on growth performance	Ishurdi
35	Effect of salinity on germination, growth and yield of tropical sugarbeet varieties	• To observe the salinity effect on germination, growth and yield of sugarbeet varieties • Screening of sugarbeet varieties against salinity	Ishurdi
36	Effect of different planting methods on growth, yield and quality of sugarbeet	• To study the effect of different planting methods on sugarbeet growth and yield • Identifying suitable planting method of sugarbeet for higher yield and economic benefit	Ishurdi
37	Development of weed management practices in sugarbeet	• To study the performance of herbicides in controlling weeds in sugarbeet field • Comparing cultural and chemical methods of weed control in respect of efficiency and cost of weed control	Ishurdi

SI No.	Research Title	Objective(s)	Location
38	Effect of spacing and planting time on growth and leaf yield of stevia (<i>Stevia rebaudiana</i>)	<ul style="list-style-type: none"> Finding out optimum spacing of stevia plantation To determine the optimum planting time of stevia Studying the effect on spacing and planting times on growth and leaf yield of stevia 	Ishurdi
PHYSIOLOGY AND SUGAR CHEMISTRY DIVISION			
39	Screening sugarcane genotypes under zyt- i, ii & iii against water-logging stress	<ul style="list-style-type: none"> Selecting sugarcane clones with superior tolerance to water-logging Finding out morphological and physiological basis for water-logging tolerance to sugarcane and Identifying parents to use in further crossing programme to develop water-logging tolerant varieties 	BSRI Farm (Pot & Field), Sirajgonj, Lalpur (Natore), Bheramara (Kushtia)
40	Screening sugarcane Genotypes under zyt - i, ii & iii against flood stress	<ul style="list-style-type: none"> Selecting clones with superior tolerance to flood stress Finding out morphological and physiological basis for flood tolerance to sugarcane and Identifying parents to use in further crossing programme to develop flood tolerant varieties 	BSRI (Pot), Lalpur (Natore) and Chunarughat
41	Screening sugarcane genotypes under zyt - i, ii & iii against drought stress	<ul style="list-style-type: none"> Selecting sugarcane clones with superior tolerance to drought stress Finding out morphological and physiological basis for drought tolerance to sugarcane and Identifying parents to use in further crossing programme to develop drought tolerant varieties 	BSRI (PVC pipe), Thakurgaon and Godagari, Rajshahi (RSRS)
42	Screening sugarcane genotypes under zyt - i, ii & iii against salinity stress	<ul style="list-style-type: none"> Selecting sugarcane clones with superior tolerance to salinity Identifying morphological and physiological characters of salinity tolerance and Identifying parents to use in further crossing programme to develop salinity tolerant varieties 	BSRI (Pot), Terokhada (Khulna), Bagherhat and Barisal
43	Effects of salinity on growth, yield and goor quality of promising sugarcane varieties at southern region of Bangladesh	<ul style="list-style-type: none"> Selecting sugarcane varieties with superior tolerance to salinity and Determining the salinity level of cane juice and goor 	Terokhada (Khulna) and Barisal
44	Screening sugar beet genotypes against salinity stress	<ul style="list-style-type: none"> Selecting sugarcane clones with superior tolerance to salinity and Identifying morphological and physiological characters of salinity tolerance 	BSRI Yard
45	Germination potentiality of advanced sugarcane clones under low temperature stress condition	Evaluating BSRI bred advanced sugarcane clones having inbuilt potential to germinate under lower ambient temperature	BSRI Yard
46	Effect of plant growth regulators on growth and yield of stevia	Investigating the growth dynamics and leaf yield potential of stevia by using PGR(s)	BSRI Yard

SI No.	Research Title	Objective(s)	Location
47	Screening sugarcane clones based on maturity behavior and goor manufacture under zyt- i, ii & iii test stages	<ul style="list-style-type: none"> • Determining maturity behaviour of sugarcane clones and find out peak maturity period • Screening sugarcane clones suitable for goor production • Determining the quality of goor after preparation 	BSRI Farm
48	Optimization of techniques for sugarcane juice	<ul style="list-style-type: none"> • Optimizing the techniques for preservation of ready-to-serve bottled sugarcane juice of consumer acceptability and • Observing shelf life of preserved sugarcane juice 	BSRI
49	Preparation and preservation Screening sugarbeet based on maturity behavior and gur manufacture	<ul style="list-style-type: none"> • Determining maturity behaviour of sugar beet varieties and find out peak maturity period • Determining suitable process of goor production from sugarbeet and • Determining the quality of goor after preparation 	BSRI Farm
50	Determination of phosphate content in the clones under ZYT- i, ii & iii test stages	<ul style="list-style-type: none"> • Determining the level of phosphate in different sugarcane varieties/clones for better juice clarification and • Identifying varieties/clones containing higher phosphate level to help cane breeder for further crossing programme 	BSRI Farm
51	Utilization of sugarbeet goor for candy preparation	<ul style="list-style-type: none"> • To prepare candy with sugarbeet and sugarcane goor in different proportion • To popularize the use of sugarbeet goor • To determine the nutritional value of candy • To observe the shelf life of candy and • Overall acceptability of prepared candy 	BSRI & Dept. of food technology and rural industries, BAU, Mymensingh
52	Performance of BSRI released sugarcane varieties for gur production in chittagong hill districts	<ul style="list-style-type: none"> • Studying the performance of BSRI developed sugarcane varieties for superior goor production in the Chittagong hill districts • Determining the quality of prepared Goor from different sugarcane varieties 	Bandarban, Khagrasari & Rangamati
PATHOLOGY DIVISION			
53	Screening of sugarcane genotypes under zyt-iii, zyt-ii, zyt-i, ayt, pyt, irradiated and tissue culture derived clones to red rot	<ul style="list-style-type: none"> • Identifying and selecting the sugarcane genotypes having higher level of resistance against red rot disease • Recommendation of new resistant varieties and tolerant clones for final release to the growers and to preserve in the gene bank for breeding purposes 	Ishurdi and Thakurgaon (RSRS)
54	Screening of sugarcane genotypes to wilt disease	<ul style="list-style-type: none"> • Identifying and selecting the sugarcane genotypes having superior resistance to wilt disease • Recommendation of new resistant /tolerant varieties/ clones for final release to the growers 	Ishurdi and Thakurgaon (RSRS)
55	Screening of sugarcane genotypes under zyt-iii, ii, i and ayt to smut disease	<ul style="list-style-type: none"> • Identifying and selecting the sugarcane germplasms having superior resistance to smut disease • Recommendation of new resistant /tolerant clones/ varieties for commercial cultivation 	Ishurdi

SI No.	Research Title	Objective(s)	Location
56	Screening of sugarcane genotypes to pineapple disease	<ul style="list-style-type: none"> Identifying and selecting the sugarcane germplasms having superior resistance to pineapple disease Recommendation of resistant /tolerant varieties/ cultivars for commercial cultivation 	Ishurdi
57	Investigation on disease incidence of different genotypes of sugarbeet in bangladesh	<ul style="list-style-type: none"> Identifying and selecting the sugar beet genotypes having higher level of resistance/ tolerance against major diseases Recommendation of new resistant varieties/tolerant clones of sugar beet for final release to the growers 	Ishurdi
58	Comparative performance of <i>trichoderma</i> spp. And sett treating chemicals in controlling sett rot disease of sugarcane	<ul style="list-style-type: none"> Determining the performance of <i>Trichoderma</i> spp. over sett treating fungicides in controlling sett rot disease of sugarcane Utilizing the bio-control agents for controlling sugarcane diseases 	Ishurdi and Thakurgaon (RSRS)
59	Management of sclerotium root rot of sugarbeet	<ul style="list-style-type: none"> Identifying the effective fungicides/bio-agents against <i>Sclerotium rolfsii</i> under field condition. Find out the appropriate control measures for sclerotium root rot of sugarbeet 	Ishurdi
60	Integrated disease management of sugarbeet	<ul style="list-style-type: none"> Find out the appropriate management practices of sugarbeet diseases under field condition Find out an eco-friendly package against sugarbeet disease management 	Ishurdi
61	Production and distribution of breeder and foundation seed of sugarcane	<ul style="list-style-type: none"> Producing disease free clean seeds to meet up the requirement of different divisions of BSRI and out-station experiments Distributing the disease free clean seeds to the mills and non-mill zones for further multiplication Minimizing the disease incidence of sugarcane throughout the country 	Ishurdi and Thakurgaon (RSRS)
ENTOMOLGY DIVISION			
62	Screening of selected sugarcane clones for possible resistance against some major pests in zyt i, ii and iii	<ul style="list-style-type: none"> Screening advance clones for possible resistance to Top shoot borer (<i>Scirpophaga excerptalis</i> Walker), Early shoot borer (<i>Chilo infuscatellus</i> Snellen), Rootstock borer (<i>Emmalocera depressella</i> Swinhoe), Stem borer (<i>Chilo tumidicostalis</i> Hampson), Pyrilla leaf hopper (<i>Pyrilla perpusilla pusana</i> Distant), Black leaf hopper (<i>Eoerysa flavocapitata</i> Muir), Scale insect (<i>Melanaspis glomerata</i> Green), Mealy bug (<i>Saccharicoccus sacchari</i> Cokerell), Termites (<i>Odontotermes parvidens</i>, <i>Microtermes</i> sp.) and White grubs (<i>Brahmina</i> sp., <i>Holotrichia</i> sp. etc.) and Comparing selected clones with standard to fulfill the requirement of National Seed Board (NSB) 	Ishurdi and Thakurgaon (RSRS)
63	Screening of sugarbeet varieties against insect pests of sugarbeet	<ul style="list-style-type: none"> Screening sugarbeet varieties against insect pests of sugarbeet Recording the major insect pests of sugarbeet 	Ishurdi

SI No.	Research Title	Objective(s)	Location
64	Screening different sugarcane chewing and goor varieties/ clones for tolerance against top shoot borer and stem borer in madhupur tract	<ul style="list-style-type: none"> • Observing the incidence of borer pests in different sugarcane chewing and goor varieties/clones • Screening sugarcane varieties/clones for possible resistant against top shoot borer and stem borer • Comparing resistance among the selected varieties/clones against top shoot borer and stem borer 	Kapasias-Gazipur (On-Farm) and Gazipur (RSRS)
65	Seasonal abundance of major insect pests of sugarcane and their natural enemies	<ul style="list-style-type: none"> • Determining the population density/ fluctuation through out the year/cropping season • Finding the prevalence of their natural enemies and • Recording the new insect pests and their natural enemies in sugarcane and Sugarbeet 	Ishurdi
66	Mass rearing of bio-agents in the laboratory	<ul style="list-style-type: none"> • Production of mass quantity of bio-agents in the Laboratory • Maintaining bio-agents stock in the laboratory and • Ensuring the availability of bio-agents for field release as a component of IPM 	Ishurdi
67	Effects of planting time on borer infestations in sugarcane	<ul style="list-style-type: none"> • Finding the infestation of sugarcane borers at different planting time • Monitoring the abundance of borers at different planting time and • Estimating the yield and sugar recovery at harvest 	Ishurdi
68	Effects of entomopathogenic fungi <i>metarhizium anisopliae</i> and <i>beauveria bassiana</i> on sugarcane white grubs and rootstock borer	<ul style="list-style-type: none"> • Finding the effectiveness of <i>Metarhizium anisopliae</i> and <i>Beauveria bassiana</i> on white grubs and rootstock borer • Monitoring of population abundance in different treatments and • Finding a suitable dose for the management of white grubs and rootstock borer 	Thakurgaon (RSRS), Mills farm, PSM
69	Development of management practices against grass hopper in faridpur sugar mills area	<ul style="list-style-type: none"> • Finding suitable management practices against sugarcane grass hopper • Documenting grasshopper population in different treatments and • Estimating the effects of management practices on the yield and sugar recovery 	Growers plot of Faridpur Sugar Mills area
70	Effects of different management practices on the infestation of black beetle in sugarcane	<ul style="list-style-type: none"> • Finding suitable management practices against black beetle • Monitoring black beetle population in different treatments and • Estimating the yield of sugarcane in different management practices 	Growers plot of NBSM, Natore
71	Screening of insecticides against some major insect pests of sugarcane	<ul style="list-style-type: none"> • Comparing the effectiveness of newer insecticide • Documenting intensity of insect pest's infestation against different insecticides and • Finding suitable and effective insecticides 	Ishurdi Thakurgaon (RSRS) Bhabanipur Farm, NBSM Ltd, Natore

SI No.	Research Title	Objective(s)	Location
72	Study on climatic changes on major insect pests of sugarcane in different location of bangladesh	<ul style="list-style-type: none"> Finding pest infestation change according to their climatic change and Finding a relation between climatic factors and pest reaction 	Panchaghor, Thakurgaon Ishurdi Rajshahi Satkhira Barisal Gazipur
73	Observation trial on the management of sugarcane borers with sex pheromone trap	<ul style="list-style-type: none"> Finding the effectiveness of pheromone lures against borer moths Monitoring the trapped moths in the field and Enriching the component of IPM for the management of sugarcane borers 	Ishurdi
74	Effects of calcium silicate in controlling sugarcane stem borer	Finding a suitable dose of calcium silicate application	Ishurdi
75	Effect of different insecticides in controlling sugarbeet caterpillar, <i>spodoptera litura</i> fab. In sugarbeet	<ul style="list-style-type: none"> Finding out suitable insecticides against <i>Spodoptera litura</i> Fab. of sugarbeet. Finding out alternative & cheaper insecticides against <i>Spodoptera litura</i> Fab. of sugarbeet. 	Ishurdi
76	Development of integrated management approaches against sugarbeet caterpillar, <i>spodoptera litura</i> fab. In sugarbeet	<ul style="list-style-type: none"> Finding the effective management practices Assessment of different management options and Monitoring of population abundance in different treatment regime 	Ishurdi
77	Use of attractant and repellent crop in controlling sugarbeet insect pests	<ul style="list-style-type: none"> Observing the effect of trap crop as well as repellent crop for reducing pests in sugar beet Comparing the economics of different management practices 	Ishurdi
SOILS AND NUTRITION DIVISION			
78	Isolation and characterization of phosphate solubilizing bacteria from sugarcane rhizosphere	<ul style="list-style-type: none"> Isolating phosphate solubilizing bacteria from sugarcane Characterizing of promising phosphate solubilizing bacteria on the basis of morphological and biochemical characteristics for making biofertilizer 	Ishurdi
79	Effect of diazotrophic bacteria on growth and yield of sugarcane	<ul style="list-style-type: none"> Determining the nitrogen fixing capacity and growth hormone production of diazotrophs Evaluation of the effect of diazotrophs on growth and yield of sugarcane 	Ishurdi
80	Management of salt-affected soils for sustainable sugarcane production	<ul style="list-style-type: none"> Determining the properties of saline soils and irrigation water in saline area Developing appropriate nutrient packages using gypsum alone or in combination with manure for sustaining sugarcane yield 	Khulna and Satkhira
81	Effect of moisture conservation techniques on growth and yield of sugarcane in drought prone areas of bangladesh	<ul style="list-style-type: none"> Determining the influence of different moisture conservation techniques on growth and yield of sugarcane Finding out suitable moisture conservation technique for sugarcane cultivation in drought prone areas 	Thakurgaon

SI No.	Research Title	Objective(s)	Location
82	Site specific fertilizer requirement for sugarbeet production	Determining appropriate rate of N, P, K, S and B fertilizer for sugar beet production	Rangpur, and Faridpur
83	Nutrient requirement for sustainable sugarcane production under different aezs	Finding out the optimum and economic nutrient requirement for sustainable sugarcane production in different AEZs	Kholabari (Gaibandha) Panchgachi, Hatibandha, Lalmonirha, and Gangachara (Rangpur)
84	Efficacy of urea super granule (usg) as a source of nitrogen in sugarcane production	<ul style="list-style-type: none"> Comparing the traditional N source of prilled urea with USG for improving N use efficiency in sugarcane Determining the optimum dose of USG for higher sugarcane yield Minimizing the cost of N fertilizer for obtaining higher economic return 	Ishurdi
85	Influence of fertilizer management on flower induction of sugarcane	<ul style="list-style-type: none"> Identifying appropriate fertilizer management practice for fruitful flowering in sugarcane Comparing the genotypic response in floral induction due to fertilizer management 	Ishurdi
86	Influence of nitrogen rates and frequency on growth, yield and quality of chewing sugarcane variety china	<ul style="list-style-type: none"> To find out the effect of nitrogen on quantity and quality of sugarcane yield; and To assess the total above ground biomass production and it's partitioning to fresh millable cane stalks in response to N supply 	Ishurdi and Hill Tracts
87	Potency of biosar-an enriched compost on sustainable sugarcane production	<ul style="list-style-type: none"> Evaluating and developing an economically suitable package with Biosar and inorganic fertilizers for sustaining yield of sugar of cane Improving soil health through integrated use of Biosar and inorganic fertilizer for maintaining stable soil fertility, microbial population and apparent nutrient balance in soil 	Ishurdi and Chuadanga
88	Isolation and characterization of nitrogen-fixing bacteria from sugarcane	<ul style="list-style-type: none"> Isolation of nitrogen-fixing bacteria from rhizosphere, roots and stem of the sugarcane Determination of biochemical and genetic characterization of bacteria Investigation of nitrogen fixation capacity of the bacteria 	Ishurdi
89	Integrated effect of inorganic and organic fertilizers on the yield and quality of sugarcane and intercrops	<ul style="list-style-type: none"> To develop economically suitable fertilizer management package with organic materials and inorganic fertilizers for higher sugarcane and intercrop yields To maintain soil fertility status in the crop land To estimate apparent nutrient balances in soil 	Ishurdi and Jamalpur
90	Effect of boron on yield and quality of sugarbeet	<ul style="list-style-type: none"> Finding out the effect of boron application on yield and quality of sugarbeet Comparing the effects of soil and foliar application of boron on sugarbeet 	Ishurdi & Thakurgaon (RSRS)
91	Enrichment of pressmud by micro-organism and	Finding out the nutritional status of enriched pressmud decomposed by micro-organisms.	Ishurdi

SI No.	Research Title	Objective(s)	Location
	its effects on soil chemical properties, growth and yield of plant and ratoon crops of sugarcane	<ul style="list-style-type: none"> Finding out the efficacy of microbes like Trichoderma viride and T. harzianum for rapid composting of pressmud Determining the economically suitable fertilizer doses for sustainable plant and ratoon cane production without deterioration in soil fertility 	
TRAINING AND TECHNOLOGY TRANSFER DIVISION			
92	Extent of adoption of modern sugarcane varieties and production technologies in some selected sugar mills and non mill zones	<ul style="list-style-type: none"> To determine the extent of the level of adoption of BSRI developed modern sugarcane varieties and production technologies in the sugar mills and non-mill zones To assess the levels of awareness and knowledge of the sugarcane farmers regarding BSRI recommended sugarcane production technologies To identify the bottlenecks that stand against adoption of modern sugarcane production technologies To ascertain the differences in the extent of adoption of modern sugarcane varieties and production technologies between the growers of sugar mills and non-sugar mills zones 	Mill Zone (SM, NBSM & Carew & Co Non-Mill Zone Sirajgonj, Chapai- Nawabgonj, Tangail & Satkhira
93	Monitoring of technology based subsidy programme in sugarcane	<ul style="list-style-type: none"> To monitor, review and repay the gaps in implementing the subsidy based technology transfer programme To identify the mid-term success to the govt./authority about the subsidy based technology transfer programme To make a bridge between programme planner and implementers 	Fifteen Sugar Mills Zones of Bangladesh
94	Effectiveness of bsri technology village in pabna sugar mills area	<ul style="list-style-type: none"> To find out the effectiveness of BSRI technology village with a view to disseminating BSRI varieties & technologies Creating awareness & usable form of BSRI technologies To know the performance of those varieties & technologies at farmers condition To make a bridge between scientist with farmers 	Pabna Sugar Mills Area
ON-FARM RESEARCH DIVISION			
95	Performance of promising sugarcane clones at different aezs under farmers' condition	Evaluating field level performance of advanced clones/lines in different AEZs.	Thakurgaon, Jamalpur, Joypurhat, Kustia and Chuadanga
96	Year round cultivation of chewing cane in the homestead area	<ul style="list-style-type: none"> Creating wage and self employment opportunities round the year Optimizing the utilization of fallow land as well as homestead Meet up the unmade demand of nutrition and Improving the socio-economic conditions of the farmers 	Ishurdi

SI No.	Research Title	Objective(s)	Location
97	Suitability of chewing cane in saline costal area of southern region	<ul style="list-style-type: none"> Identifying the salt tolerant chewing varieties/clones Estimating economic benefit and profitability of chewing cane in the southern region 	Khulna and Satkhira
98	Effect of planting time on chewing varieties of sugarcane	<ul style="list-style-type: none"> Determination of planting time and varieties on growth and yield of chewing cane Finding the effect of planting time on quality of chewing cane and Estimating economic performance of chewing cane 	Gazipur
99	Effect of maturity behaviour on late plantation of bsri released sugarcane varieties in sugar mill zone	<ul style="list-style-type: none"> Find out peak maturity period for late planting of BSRI released commercial sugarcane varieties Identifying photosensitivity of BSRI released commercial sugarcane varieties cultivated in sugar mill zones 	Lalpur (Natore)
100	Performance of bsri newly released sugarcane varieties in Char land of rangpur	<ul style="list-style-type: none"> To find out the performance of BSRI released varieties in the Char land of Rangpur To identify suitable BSRI released varieties for location specific recommendation. To find out the economic profitability of BSRI released varieties in the Char land of Rangpur 	Gangachara, Rangpur
101	Varification and feasibility study of some new insecticides in controlling sugarcane termites	<ul style="list-style-type: none"> To find out effect of new insecticides on termites To find out alternative & cheaper insecticides to control termites. 	Thakurgaon
102	Sequential intercrops production in paired row spacing of chewing cane under farmers' condition at hill districts	<ul style="list-style-type: none"> To study the performance and make chewing cane cultivation profitable To find out the best suitable vegetables as first intercrop yield in unit area at farmer's field of hill district 	Rangamati, Khagrachari and Bandarban
AGRICULTURAL ECONOMICS DIVISION			
103	Comparative study of sugarcane cultivation with different cropping patterns (modified)	<ul style="list-style-type: none"> Estimating the profitability of sugarcane cultivation Estimating the economic potentiality of sugarcane cultivation with different cropping patterns and Finding the constraints of sugarcane cultivation 	TSM, FSM, ZBSM and Chapai Nawabgonj, Barisal and Sirajgonj
104	Financial assesment of sugarcane cultivation with intercrops (modified)	<ul style="list-style-type: none"> Determining the profitability of sugarcane production with different intercrops; Estimating the relationship between inputs and outputs of sugarcane cultivation with different intercrops Finding the suitable intercrops with sugarcane in different region and Identifying constraints of sugarcane cultivation with different intercropping system 	Faridpur, Joypurhat, Jamalpur, Chapai Nawabganj and Satkhira
105	Financial analysis of sugarcane cultivation in some selected char lands	<ul style="list-style-type: none"> Determination of cost and returns of sugarcane production in char lands Exploring the present socio-economic condition 	Rangpur, Lalmonirhat, Gaibandha and

SI No.	Research Title	Objective(s)	Location
	of Bangladesh	<ul style="list-style-type: none"> and opportunities of sugarcane cultivation in char lands Finding the factors affecting sugarcane cultivation in char lands and Find out the major constraints of sugarcane cultivation in char lands 	Sirajgonj
106	An economic analysis of sugarcane and its marketing in hill areas of Bangladesh	<ul style="list-style-type: none"> Estimating the profitability of sugarcane in hilly areas Investigating the present marketing system of sugarcane and Identifying the problems/constraints of sugarcane production and marketing in hilly area 	Bandarban, Rangamati and Kagrachari
107	Economic returns to investments on bsri realeased latest sugarcane varieties	<ul style="list-style-type: none"> Estimating the social benefits associated with BSRI developed sugarcane varieties for increased crop production Estimating the rate of returns from BSRI developed sugarcane varieties Isd-37 and Isd-38 Providing policy guide line/recommendation to future investments in sugarcane technological research in Bangladesh 	All over Bangladesh
AGRICULTURAL ENGINEERING DIVISION			
108	Development and evaluation of iisr developed pan & bsri developed furnace for goor production.	<ul style="list-style-type: none"> Development of efficient and modified pan and furnace for goor production Performance evaluation of the IISR modified pan and BSRI developed furnace Comparison between the improved system and traditional one 	Ishurdi,
109	Design and development of diffuser	<ul style="list-style-type: none"> Design and development of a low cost Diffuser Testing and evaluating the performance of the diffuser 	Ishurdi, Pabna
110	Improvement of bsri developed sugarcane crusher for efficient juice extraction	<ul style="list-style-type: none"> Modification and improvement of the BSRI developed power crusher; and Testing and evaluating the performance of BSRI developed power crusher 	Ishurdi, Pabna
111	Feasibility study of conservation agriculture practice for sugar beet cultivation	<ul style="list-style-type: none"> Selection of suitable tillage method for beet cultivation under CA; and Reduction of production cost of Beet cultivation 	Ishurdi, Pabna
112	Optimization of irrigation schedule for sugarcane with intercrops under different time of plantation	<ul style="list-style-type: none"> Reduction of duration of sugarcane with proper irrigation management Design an effective irrigation schedule for intercrop cultivation with sugarcane 	Ishurdi, Pabna
113	Design and development of drip irrigation system for chewing cane in bangladesh	<ul style="list-style-type: none"> Design and Development of low cost drip irrigation system with locally available materials Performance evaluation of drip irrigation system for chewing cane 	Ishurdi, Pabna and Chittagong Hilly Districts

SI No.	Research Title	Objective(s)	Location
114	Optimization of irrigation scheduling using alternate furrow irrigation for sugarcane cultivation	<ul style="list-style-type: none"> • Development of irrigation scheduling using alternate furrow irrigation for profitable sugarcane cultivation • To verify and to study the effect of the alternate furrow irrigation method on the sugarcane productivity • Development of water saving technique without compromising yield 	Ishurdi, Pabna
115	Demonstration of bsri developed technologies in sugar mill zone and non-mill zone	<ul style="list-style-type: none"> • Evaluating performance of BSRI power weeder for sugarcane in the farmer's field • Improving the workmanship of the machines/tools getting feedback from the demonstration • Creating interest among the farmers on the use of these machines and • To stimulate local manufacturers for manufacturing these machines 	Ishurdi, Pabna, Mill zone and non-mill zone
REGIONAL STATION (RS),Thakurgoan			
116	Performance of different maize varieties with sugarcane in single and paired row systems	<ul style="list-style-type: none"> • Finding out the suitable maize variety as intercrop with sugarcane • Increasing farm income from intercropping of maize in sugarcane field. 	Thakurgoan
117	Performance of sugar beet as intercrop with single and paired row sugarcane in old himalayan piedmontplain soils	<ul style="list-style-type: none"> • Studying the productivity of sugarbeet as intercrop with sugarcane in single and paired row planting system • Sustaining sugarcane production and increase economic benefit 	Thakurgoan
118	Intercropping of flower with sugarcane	<ul style="list-style-type: none"> • Finding out the suitable flower varieties for intercropping with sugarcane • Estimating economic profitability of flower intercropping with sugarcane 	Thakurgoan
119	Integrated weed management sugarcane	<ul style="list-style-type: none"> • Selecting the suitable practices for effective weed management in sugarcane • Comparing economic suitability of chemical weed control over mechanical or cultural methods • Increasing sugarcane yield and economic benefit by competent weed management practices 	Thakurgoan
120	Performance of sugarcane with winter vegetables as first and summer vegetables as second intercrops in single and paired row systems	<ul style="list-style-type: none"> • Selecting suitable winter vegetables as first intercrops and summer vegetables as second intercrops • Investigating the feasibility of winter and summer vegetables with sugarcane in Old Himalayan Piedmontplain Soils • Developing double intercropping package for winter and summer vegetables with sugarcane 	Thakurgoan (RSRS), PSM, STSM
121	Cotton and sugarcane realy intercropping	<ul style="list-style-type: none"> • Investigating the feasibility of cotton with sugarcane in Old Himalayan Piedmontplain Soils • Developing intercropping package for cotton with sugarcane 	Thakurgoan

SI No.	Research Title	Objective(s)	Location
122	Impact of hot water treatment on the germination of sugarcane bud chip	<ul style="list-style-type: none"> Developing hot water treatment time to germination bud chip of sugarcane Finding out the impact of hot water treatment of sugarcane diseases 	Thakurgoan
123	Performance of some chewing sugarcane varieties with winter crops vegetables as first and mungbean as second intercrops in karatowa bengali flood plain	<ul style="list-style-type: none"> Finding out the suitable winter crops variety as intercrop with sugarcane Increasing productivity and interim economic benefit per unit area and time of sugarcane field 	Thakurgoan
124	Yield performance of latest sugarcane varieties grown in different location in old himalayan piedmont plain soils	<ul style="list-style-type: none"> Selecting suitable latest varieties for increasing the yield and quality of sugarcane in old himalayan piedmont plain soils Increasing farmers earning through latest cane cultivation 	Thakurgoan
QUARANTINE STATION, GAZIPUR			
125	Quarantine follow- up of imported varieties/ clones	To remain vigilant about the entry and introduction of new pathogens and insect pests carried along with the varieties/clones brought from abroad	Gazipur
126	Quarantine follow- up of local varieties/ clones	To remain vigilant about the entry and introduction of new pathogen or insect pests from one location to other carried along with the varieties/ clones during collection	Gazipur
127	Maintenance of BSRI released promising sugarcane varieties in quarantine station	Conserving the BSRI released promising sugarcane varieties for producing disease free seed cane for local use as well as foreign exchange	Gazipur
REGIONAL SUGAR CROP RESEARCH STATION, GAZIPUR			
128	Genetic study of some indigenous and exotic genotypes of sugarcane	<ul style="list-style-type: none"> Finding the amount of genetic variation and association of yield and yield contributing characters and Studying genotype X environment interaction in sugarcane 	Gazipur (RSRS)
129	Performance of some chewing cane with subsequent intercrop for continuous sugarcane cultivation in same land	<ul style="list-style-type: none"> To select suitable chewing cane variety for continuous sugarcane cultivation and Developing a complete package of continuous chewing sugarcane cultivation with intercrop 	Gazipur
130	Effect of sett treatment and fertilization by organic means on yield and quality of sugarcane	<ul style="list-style-type: none"> Maintaining long term fertility of soil and avoid all forms of pollution caused by agricultural techniques Finding out the possibilities of growing sugarcane by organic means in Bangladesh context and To reduce the cost of fertilizers and pesticides for optimum cane production 	Gazipur
131	Up-scaling and field validation of integrated management package against sugarcane	<ul style="list-style-type: none"> Validating and up scaling of IPM packages for the management of sugarcane termites in the farmers' fields and Reducing the cost of production through using 	Kapasias and Porabari (Gazipur)

SI No.	Research Title	Objective(s)	Location
	termites in madhupur tract	cheaper and easily available botanicals and soil amendment agents	
132	Comparative performance of different farmers' Practices and recommended insecticides against Sugarcane stem borer at gazipur region	Disseminating and popularizing of recommended insecticides with proper dosage and time of application for controlling stem borer in Gazipur region	Bhawal Mirzapur, Gazipur
133	Distribution of chewing sugarcane seedlings and inputs for enhancing sugarcane cultivation in rural and urban homestead areas	<ul style="list-style-type: none"> Introducing and extending disease free chewing cane seeds of recommended varieties in urban and rural areas. Ensuring availability of chewing cane & juice and Adding of quick energy of villagers & city dwellers 	Five hundred farmer's households each of at Gazipur & Dhaka district
134	Production of disease free clean seed cane	<ul style="list-style-type: none"> To introduce and extend disease free seeds of recommended varieties in non mill zone. To ensure disease free seed cane for experiment and demonstration purpose to be used by BSRI and DAE for next season and To motivate the farmers in adapting new varieties and accelerate its dissemination 	Gazipur and Narayanganj
BSRI SUB-STATION, RAJSHAHI			
135	Onion seed crop and mungbean sequential intercropping with paired row sugarcane in high ganges river flood plain	<ul style="list-style-type: none"> Study of the economic performance of onion seed production under sugarcane based intercropping system. Producing the quality onion seed in paired row sugarcane to meet-up seed Demand 	Rajshahi (RJSM)
136	Effect of fertilizers on juice and goor quality of cane in non mill zone	<ul style="list-style-type: none"> Determining the quality of cane and goor due to application of varied fertilizer doses Estimating the economic use of fertilizer for cane and quality goor production and Finding out the quality of goor for low doses and late application of fertilizer 	Shibganj, Chapai Nawabganj
137	Tolerance of newly released sugarcane varieties against borer pests in high ganges river flood plain soil	<ul style="list-style-type: none"> Study of the present status of different commercial varieties as affected by major borer pests of sugarcane Grading the varieties according to their resistance 	Rajshahi (RJSM)
138	Production of disease free clean seed cane	<ul style="list-style-type: none"> Producing disease free clean seed to meet up the requirement of the growers of different sugar mill and non mill zone Ensuring disease free seed cane for experiment and demonstration purpose to be used by BSRI and DAE for next season and Reducing the disease incidence of sugarcane of throughout the country 	Five different plots
BSRI SUB-STATION, CHUADANGA			
139	Performance of newly released cane varieties both in plant and ratoon	<ul style="list-style-type: none"> Observing the suitability of BSRI varieties in Chuadanga area Studying the comparative performance of 	Chuadanga (2 location)

SI No.	Research Title	Objective(s)	Location
	cane in aez-11.	released varieties • Find out the best ratoon varieties of the area	
140	Multiplication and cultivation of stevia using different doses of organic fertilizer under aez 11	• Multiplying and disseminating stevia to chuadanga area • Cultivating stevia for its various utilization • Find out appropriate dose of organic matter for stevia cultivation in AEZ 11	Chuadanga
141	Performance of newly released cane varieties with double intercrops in aez 11.	To select suitable cane variety (s) for double intercropping of the area (AEZ 11)	Chuadanga (2 locations)
BSRI SUB-STATION, JOYPU RHAT			
142	Effects of zinc and boron on sugarcane yield and quality	• To find out the individual effect of Zn and B on yield and quality of sugarcane • To assess the interaction effect of Zn and B on yield and quality of sugarcane	Joypurhat
143	Fertilizer management for sequential intercropping with sugarcane	• To find out the suitable fertilizer management practices for sequential intercropping with sugarcane • To find out the impact of sequential intercropping with sugarcane on soil fertility status	Joypurhat
144	Performance of bsri bred sugarcane varieties as plant and ratoon crop in tista meander floodplain soil	• To select suitable BSRI bred sugarcane varieties in Tista Meander Floodplain Soil • To study the comparative performance of different latest varieties	Joypurhat (2 locations)
BSRI SUB-STATION, JAMALPUR			
145	Performance of ratooning of latest sugarcane varieties at aez 9	• Finding out suitable sugarcane varieties for ratoon production at AEZ 9 • Identifying the potentiality of these variety for yield and gur production in ratoon cane	Nokla, Sherpur and Pathorerchor, Jamalpur
146	Agronomic evaluation of promising chewing varieties of sugarcane in aez 9	• Finding out the comparative performance of different promising varieties of chewing cane • Increasing farmers income through chewing cane cultivation	Nakla, Sherpur, lawchapra (Hilly area), Jamalpur,
147	Performance of different intercrops with sugarcane in paired row system	• Selecting suitable intercrops for sequential intercropping in paired row sugarcane. • Studying the effect of sequential intercropping on growth yield and quality of sugarcane	BSRI Jamalpur Substation and Nakla, Sherpur
BSRI SUB-STATION, RAHMATPUR			
148	Selection of sugarcane varieties suitable for goor production in saline belt under southern region. Programme area: varietal improvement Duration: 2014-2015	Selecting the suitable cane varieties with high yield and recovery for goor production in saline belt under southern region	Barisal (2 location of region)
149	Performance of chewing varieties in saline belt under southern region.	Selecting the suitable cane varieties for chewing in saline belt under southern region	Barisal region (2)

SI No.	Research Title	Objective(s)	Location
	Programme area: crop & soil management Duration: 2014-2015		
150	Effect of tidal water on growth and yield of sugarcane in southern region of bangladesh Programme area: crop & soil management Duration: 2014-2015	Selecting the suitable cane varieties for tidal and disaster prone area under southern region	Patuakhali(1)
BSRI SUB-STATION: SIRAJGONG			
151	Selection of bsri bred latest sugarcane varieties suitable for chewing purposes in sirajgonj region	<ul style="list-style-type: none"> • Suitable cane varieties select with high yield and recovery for chewing cane production in Sirajgonj region • Increasing the cane area as well as yield and chewing can production by selecting the best sugarcane variety 	Sadar, Raipur Kamarkhand Upazilla in Sirajgonj
152	Performance of sugarcane with different pulse/vegetable crops as first and mungbean as second intercrop in paired row sugarcane in sirajgonj	<ul style="list-style-type: none"> • To find out suitable pulse/vegetables crop as 1st intercrop for higher crop yield with interim benefit to farmers • To increase the productivity and interim benefit per unit area and time of sugarcane field 	Sirajgonj, Sadar , Kajipur and Kamakhand Upazilla
153	Ratooning potentiality of bsri bred newly released sugarcane varieties at non-mill zones	<ul style="list-style-type: none"> • To determine ratooning potentiality BSRI bred newly released sugarcane varieties in Sirajgonj areas • To popularize ratooning practice at non-mill zone 	Sirajganj (3)

SOIL RESOURCE DEVELOPMENT INSTITUTE

SOIL RESOURCE DEVELOPMENT INSTITUTE

SI No.	Research Title	Objective(s)	Location
1	Updating of upazilaland and soil resources utilization guide)Upazila Nirdeshika(<ul style="list-style-type: none"> • Sustainable agriculture planning • Effective soil fertility management • Post flood rehabilitation program • Determining crop suitability of respective Upazila 	21 districts of Bangladesh
2	Publication of union land, soil and utilizationguide)Union Sohayika(<ul style="list-style-type: none"> • To make Unionwise location specific fertilizer recommendation for specific crops and cropping pattern • To make local level sustainable crop production planning 	150 unions of Bangladesh
3	Detailed soil survey of government and non-government farm	To assessing crop production capability of agricultural farms	21 districts of Bangladesh
4	Soil fertility, land use and soil monitoring	<ul style="list-style-type: none"> • To monitor the changes in soil fertility status and degradation under farmer's management • To develop database for recommending a proper soil management system for achieving maximum yield 	21 districts of Bangladesh
5	Mapping of land use, crop suitability, nutrient status of soils	• To map of problem areas, nutrient deficient areas	Data Processing and Statistics Section
6	Balanced fertilizer recommendation based on soil analysis in the static laboratory	<ul style="list-style-type: none"> • To identify spatial and temporal changes in soil fertility by analyzing the data base • To reduce eenvironmental hazards by judicious use of chemical fertilizers • To assess land degradation trend in the country 	All over Bangladesh
7	On-spot balanced fertilizer recommendation by soil testing through Mobile Soil Testing Laboratories	<ul style="list-style-type: none"> • To create awareness among the farmers about the necessity of using site specific balanced fertilizer for crops/ cropping patterns • To increase crop production through better soil management 	112 Upazilas of Bangladesh
8	Fertilizer Recommendation Card)FRC(and Soil Health Card)SHC(service to farmers for sustainable crop production	<ul style="list-style-type: none"> • To reduce environmental hazards by judicious use of chemical fertilizer • To reduces per unit production cost • To dessiminate the importance of locationspecific fertilizer application among the farmers • To increase Farmer's consciousness about soil health 	All over Bangladesh
9	Soil, water and plant sample analysis for farmer service and advisory services to other organizations	<ul style="list-style-type: none"> • To increase crop production by maintaining soil health • To maintain soil fertility effectively • To reduce eenvironmental hazards by judicious use of chemical fertilizers • To assess land degradation trend in the country will be easy to perform 	All 16 laboratories
10	Fertilizer sample analysis for quality control program	• To increase crop production by using quality fertilizer	All 16 laboratories

SI No.	Research Title	Objective(s)	Location
		<ul style="list-style-type: none"> To aware farmers, extension worker and dealer about adulterated fertilizer To provide support for fertilizer quality control program To reduce environmental hazards d by judicious use of chemical fertilizers 	
11	Block demonstration based on soil analytical information provided in Upazila Nirdeshika	<ul style="list-style-type: none"> To aware the farmers about soil fertility, soil health, fertilizer application method particularly misuse of fertilizer, importance of soil test etc. To increase crop production 	21 districts
12	Determining Lime requirements for acidic soils of Bangladesh	<ul style="list-style-type: none"> To determine lime dose to ameliorate acidic soils of Bangladesh To determine the effect of time on liming and To find out the effect of liming on different soil texture 	Old Himalayan piedmont plain (AEZ-1) and Sylhet basin (AEZ- 21)
13	Comparative Assessment of Soil Fertility in Birganj Upazilla of Dinajpur District and Hatibandha Upazilla of Lalmonirhat District	<ul style="list-style-type: none"> To quantify the changes in soil quality over time period in terms of available nutrient content To determine the changes in organic matter content over time period and To assess the changes of soil pH over time 	Birganj Upazilla of Dinajpur district and Hatibandha Upazilla of Lalmonbirhat district (AEZ-1 & AEZ-3)
14	Studying performance of different types of geo-jute)weight based(for rehabilitation of degraded land by minimizing soil loss, runoff and nutrient mining of sloping land at CHT	<ul style="list-style-type: none"> To study the performance of Geo-jute)specified types(to rehabilitate and stabilize degraded lands To compare soil loss and runoff under different types of Geo-jute To study the germination and growth of cover crop for protecting further degradation To compare nutrient mining under various types of Geo-jute 	Soil Conservation and Watershed Management Centre (SCWMC), Bandarban
15	Effect of hedge species and modern cultivation method of ginger, turmeric, taro and yard long bean on contolling soil erosion, runoff, nutrient mining at moderate ans steep slope in CHT	<ul style="list-style-type: none"> To estimate soil loss, runoff and nutrient mining under modern cultivation system of ginger, turmeric and taro using hedge in contour To compare soil loss among these crops To calculate the effect of soil loss on soil chemical properties 	SCWMC, Bandarban
16	Introduction of Quesungual Slash and Mulch Agro-forestry System)QSMAS(for enhancing crop yields and soil quality in Chittagong Hill Tracts	<ul style="list-style-type: none"> Establish Quesungual Slash and Mulch Agroforestry System)QSMAS(in CHT To improve both the productivity and economic returns of land currently engaged in slash and burn agriculture To create awareness about soil conservation and watershed management among hill dwellers 	SCWMC, Bandarban

SI No.	Research Title	Objective(s)	Location
17	Introduction of bench terrace for demonstration and year round crop production	<ul style="list-style-type: none"> To reduce the quantum of overland flow/sheet flow or runoff, and their velocity To minimize the soil erosion To conserve soil moisture To conserve soil fertility and to facilitate farming operations such as ploughing, irrigation etc. on sloping land To promote intensive land use, permanent agriculture and checking shifting cultivation on steep lands 	SCWMC, Bandarban
18	Gully control by gabioncheck dam & vegetative measures for the reclamation of degraded lands in the hills of CHT	<ul style="list-style-type: none"> To check widening & head extension of gully To reduce runoff and subsequently retain washed out sediments/debris at the gully head and increase filtering effect of the run-off sediment To rehabilitate/reclaim the degraded land 	SCWMC), Bandarban
19	Establishment of different hedge species in farmers' field as transferable technology in CHT	<ul style="list-style-type: none"> To introduce modern hill cultivation and suitable technology for Soil Conservation and Watershed Management To mitigate the need of fuel, fodder and economical purpose of the hill dwellers. To minimize soil erosion hazard To increase bio-mass in soil properties To accelerate the infiltration and water holding capacity of soil 	SCWMC, Bandarban
20	Effect of mulching and pitcher irrigation on soil salinity and yield of sweet gourd in coastal saline area	<ul style="list-style-type: none"> To observe the effect of mulching and pitcher irrigation on soil salinity To observe the effect of mulching and pitcher irrigation on growth and yield of sweet gourd in coastal saline soil 	Salinity Management & Research Center Batiaghata, Khulna
21	Effect of mulching on yield of water melon and sweet gourd under soil salinity	<ul style="list-style-type: none"> To observe the effect of different mulch on growth and yield of water melon To know the magnitude of reduction of soil salinity 	SMRC, Batiaghata, Khulna
22	Effect of organic manure on soil salinity and yield of musk melon and kharif tomato using raised bund in saline soil	<ul style="list-style-type: none"> To observed the magnitude of reduction of soil salinity To select the suitable organic matter for the yield of musk melon and kharif tomato To observe the yield performance of musk melon and kharif tomato on raised bund in saline soil 	SMRC, Batiaghata, Khulna
23	Effect of different intensity of saline water on salt accumulation in soil under natural and control condition	To estimate the salt accumulation in soil by using different level of saline water under natural and control condition	SMRC, Batiaghata, Khulna
24	Evaluation of yield of bottle gourd on raised ail in T. aman field in coastal saline area	<ul style="list-style-type: none"> To introduce the bottle gourd cultivation in kharif season in T. aman field To increase kharif vegetables production in the coastal saline area To increase cropping intensity in saline area 	SMRC, Batiaghata, Khulna

SI No.	Research Title	Objective(s)	Location
25	Screening of lady`s finger, bitter gourd, Indian spinach, cucumber(khira), maize in coastal saline soil	To find out the suitable variety of lady`s finger bitter gourd, Indian spinach, cucumber (khira), maize in saline soil	SMRC, Batiaghata, Khulna
26	Effect of nitrogen, phosphorous and potassium on growth and yield of red beet in coastal saline soil	To determined the optimum dose of nitrogen, phosphorus and potassium on red beet cultivation	SMRC, Batiaghata, Khulna
27	Effect of dibbling cultivation of maize in rabi season in coastal saline soil	<ul style="list-style-type: none"> • To popularize rabi season maize cultivation in coastal saline area • To increase the cropping intensity in saline area 	SMRC, Batiaghata, Khulna
28	Effect of nitrogen and phosphorus on yield of kakur in saline soil	To determined the optimum dose of nitrogen and phosphorus on kakur in saline soil	SMRC, Batiaghata, Khulna
29	Yield performance of snake gourd on scaffold and on soil in coastal saline area	To find out the yield performance of snake gourd on scaffold and on soil	SMRC, Batiaghata, Khulna
30	Yield performance of wheat by zero tillage in coastal saline soil	<ul style="list-style-type: none"> • To introduce wheat production in coastal area after T. aman harvest • To observe the yield of wheat by zero tillage 	SMRC, Batiaghata, Khulna
31	Screening of the Bt brinjal variety in saline soil	<ul style="list-style-type: none"> • To select the suitable variety of Bt brinjal in saline area • To increase cropping intensity 	SMRC, Batiaghata, Khulna
32	Study of the yield performance of kharif season bottle gourd cultivation in saline soil on raised pit	<ul style="list-style-type: none"> • To select the suitable variety of bottle gourd in saline area • To increase cropping intensity in coastal area • To increase vegetable production in coastal belt 	SMRC, Batiaghata, Khulna
33	Study on utilization of raise bund by producing early rabi season tomato	To increase vegetables production in the coastal saline area	SMRC, Batiaghata, Khulna
34	Efficiency of urea applied in soil and by pitcher irrigation on yield of sweet gourd in saline soil	To observe the urea use efficiency on growth and yield of sweet gourd	SMRC, Batiaghata, Khulna
35	Monitoring on water salinity of Kazibacha river and different canals in Batiaghata Upazila, Khulna	To know the water salinity of different canals use for irrigation purpose in dry season	15 canals of Batiaghata Upazilla, Khulna

BANGLADESH TEA RESEARCH INSTITUTE

BANGLADESH TEA RESEARCH INSTITUTE

SOIL SCIENCE DIVISION

Sl. No.	Research Title	Objective(s)	Location
Improvement of Soil Properties for Sustainable Production			
1	Studies on performance of organic matter status on different level in reducing chemical fertilizer use in tea	<ul style="list-style-type: none"> To reduce the chemical fertilizer use on the in tea To improve the soil health by using organic matter To reduce the production cost in tea plantation 	BEF
2	Necessity of rehabilitation of old tea soil before replanting and its effect on growth and yield of soil (collaborative with Agronomy division)	<ul style="list-style-type: none"> To observe the growth and development of tea plants in the rehabilitated and non-rehabilitated soil To estimate the organic matter, lime and nutrient requirement in case of non-rehabilitated soil 	Sreemongal (BTRI, Farm) / BEF
3	Effect of vermicompost on soil properties vis-à-vis the growth and yield of young tea	<ul style="list-style-type: none"> To evaluate the efficiency of vermicompost on tea production To evaluate the optimum dose of vermicompost Minimize the use of chemical fertilizer in presence of vermicompost 	BTRI / BEF
4	Studies on physical and biological properties and the yield of tea using chemical fertilizer, organic compost & vermicompost	<ul style="list-style-type: none"> To improve physical & biological properties of tea soil To increase nutrient status of tea soil by improving soil physical properties To improve soil aeration for minimizing soil compaction problem 	BTRI / BEF
Studies on fertilizer efficacy			
5	Studies on upgrading the present fertilizer recommendation	To find out the optimum dose of NPKS and micronutrients for maximizing yield	BTRI & Tea Estate (TE)
6	Effect of single fertilizer dose on the yield of mature tea	To estimate the effect of single fertilizer dose on the yield of mature tea	BTRI

BOTANY DIVISION

Preliminary Selection of Vegetative Clones			
7	Selection of Vegetative Clones at Shumshernuggar T. E. Sections-Main Division-9 & Doublecherra-13	<ul style="list-style-type: none">• To isolate desirable mother bushes from the existing variable seedling population• To identify promising plants having yielded and quality potential through exploiting existing variability• To isolate plants tolerant to insect, disease and drought etc.• To observe rooting ability of the selected mother bushes.	BTRI / TE
8	Selection of Vegetative Clones at Amo T. E., Section No.8		BTRI / TE
9	Selection of Vegetative Clones at Baraoorah T. E. Section No. 8		BTRI / TE
Long Term Yield and Quality Trial of Provisionally Selected Clones			
10	Yield and Quality Trial of Test Clones Selected	<ul style="list-style-type: none">• To select promising test clones having desirable	BTRI

Sl. No.	Research Title	Objective(s)	Location
	from Shumshernugger and Amo T. Es.; Test Clones Sh/D/11/313, A/8/8, A/17/7 and A/22/39 against Control BT1	characteristics i.e. either yield or quality or both <ul style="list-style-type: none"> • To identify stress tolerant test clones such as drought tolerant • To identify test clones which are less susceptible to pests and diseases • In order to release clones for cultivation from the test clones under trial which have desirable characteristics of commercial importance i.e. yield, cup quality, tolerant to insect, disease, drought etc. 	
11	Yield and Quality Trial of Test Clones Selected from Amo T. E.; Test Clones A/8/1, A/17/22, A/22/27 and A/22/40 against Control BT1		BTRI
12	Yield and Quality Trial of Test Clones Selected from Chandpore, Shumshernugger and Amo T. Es.; Test Clones C/J1/10, Sh/B/6/59, Sh/B/6/62 and A/8/24 against Control BT2		BTRI
13	Yield and Quality Trial of Four Test Clones Selected from Shumshernugger T. E.; Test Clones Sh/B/6/36, Sh/B/6/38, Sh/B/6/55 and Sh/B/6/67 against Standard BT1		BTRI
14	Yield and Quality Trial of Six Test Clones – MZ/39, E/4, D/13, B2T1, BR2/97 and SDL/1 against Standard BT2		BTRI
15	Yield and Quality Trial of Four Test Clones Selected from Amo T. E.; Test Clones – A/8/37, A/8/55, A/8/62 and A/8/66 against Standard BT2		BTRI
16	Yield and Quality Trial of Four Test Clones Selected from Phulcherra, Amo and Shumshernugger T. Es.; Test Clones – A/17/16, Ph/9/1, Ph/9/9 and Sh/B/6/46 against Standard BT1	Do	BTRI
17	Yield and Quality Trial of Four Test Clones Selected from Phulcherra and Hybrid Progeny;		BTRI

Sl. No.	Research Title	Objective(s)	Location
	Test Clones – Ph/9/4, Ph/9/25, Ph/9/40 and BS/67 against Standard BT5		
18	Yield and Quality Trial of Four Test Clones Selected from Amo and Phulcherra T. Es.; Test Clones – A/8/B1, Ph/9/B1, Ph/9/11 and against Standard BT1		BTRI
19	Yield and Quality Trial of Three Test Clones Selected from Amo, Phulcherra and Shumshernugger T. Es.; Test Clones – A/8/61, Ph/9/68A, Sh/D/11/18 (retrial from Expt. B2-26) and One Introduce Clone SC/12/28 against Standard BT2		BTRI
20	Yield and Quality Trial of Four Test Clones Selected from BTRI Farm (Dulia Section); Test Clones – D1/8, D/6, D/10 and D/12 against Standard BT5		BTRI
21	Yield and Quality Trial of Four Test Clones Selected from Phulcherra T. E. and BTRI Germplasm Bank; Test Clones – Ph/9/92, BS/3, Ph/9/108 and G/68/8 against Standard BT15		BTRI
22	Yield and Quality Trial of Four Test Clones Selected from Shumshernugger and Amo T. Es. Test Clones – A/8/124, Sh/10/2, A/8/125 and A/11/38 against Standard BT16		BTRI
23	Yield and Quality Trial of Four Test Clones Selected from Shumshernugger and Amo T. Es. Test Clones – A/8/128, Sh/D/13/4, Sh/10/5, BS/91/6, against Standard BT2		BTRI

Sl. No.	Research Title	Objective(s)	Location
Programme area: Breeding of tea			
24	Controlled Pollination between Selected Clones/ Agrotypes and Selection of Generative Clones for the Establishment of Clonal Seed Reserve	<ul style="list-style-type: none"> To improve the quantity and quality of the end product (A combination of yield and quality should be the aim) Production of superior varieties /clones with useful attributes like: <ul style="list-style-type: none"> ✓ Drought tolerance ✓ Resistance to pests and diseases ✓ Water logging tolerance ✓ Cold tolerance ✓ Off-season crop production 	BTRI
25	Establishment of a Biclinal Seedbarie with Clones TV18 and BT3		BTRI
26	Comparative Yield and quality Trial of BTRI Released Biclinal Stock BTS1, Biclinal Stock T18B3, Allynugger Polyclonal Stock (ANPS), Phulbari General Seed Stock (PBS) and Clone BT1		BTRI
27	Comparative Trial of 4 Biclinal Seed Stocks (BTS1, BTS3, TV18×BT3 & TS463) and 3 Parental Clones (BT1, TV1 & TV19)		BTRI
28	Survey and Conservation of Gene Resources of Tea in Bangladesh		BTRI

AGRONOMY DIVISION

Standardization of Cultural Practices			
29	Effects of different doses of fertilizers and manures in pit on growth and development of clonal tea	Standardization of fertilizers on growth, development and establishment of newly planted clonal tea	BTRI
30	Effect of different time of pruning on the monthly crop distribution in a mature clonal tea	<ul style="list-style-type: none"> To observe the effect of different pruning time on growth and yield of tea To minimize the rush of crop in peak cropping season by more even distribution of crop through the pruning time adjusting 	BEF
31	Effect of a growth promoter (e.g. Biokad) on yield and yield components of tea	<ul style="list-style-type: none"> To know the effect of Biokad on yield parameters e.g. shoot extension rate, shoot weight and shoot density To observe its effect on yield 	BTRI/ BEF
32	Effect of different intervals of irrigation on growth and development of young tea after its plantation	Standardization of amount and interval of irrigation on growth, development and establishment of newly planted clonal tea during the dry period of the year	BTRI
33	Effect of different pruning cycles on the yield of different mature clonal tea	To find out appropriate pruning cycle for the specific clone	BTRI/ BEF
34	Management of shade plant canopy for sustainable tea production in Bangladesh	To find out suitable shade canopy management practices for higher yield of tea	BTRI

Sl. No.	Research Title	Objective(s)	Location
Development of Soil Fertility			
35	Necessity of rehabilitation of old tea soil for replanting and its effect on the growth and yield of tea	<ul style="list-style-type: none"> To observe the growth and development of tea plants in the rehabilitated and non-rehabilitated soil To estimate the organic matter, lime and nutrient requirement in case of non-rehabilitated soil 	BTRI / BEF

ENTOMOLOGY DIVISION

Entomological Research on Clonal Varieties of Tea			
36	<i>In vitro</i> and <i>in vivo</i> screening of tea clones at nursery level during clonal selection stage for nematode susceptibility	To identify resistance/ susceptibility of a particular clone to nematode	BTRI
37	Susceptibility of red spider mite to different agro types and clones	To identify resistance/ susceptibility of a particular tea agro types/ clone to Red spider mite	BTRI
Studies on Indigenous Plant Extracts			
38	Evaluation of some indigenous plant extracts against <i>Helopeltis</i> , Red spider mites and Nematodes	To determine toxic effect of tested plants against major tea pests	BTRI
Pest Infestation and Quality of Tea			
39	Studies on the biochemical changes in tea leaves and made tea due to pest infestation	To observe the changes in the biochemical constituents of tea leave as well as made tea due to mite infestation	BTRI/ BEF/ TE/ SUST
Bio-Control of Pests			
40	Searching and identification of bio-control agents for the control of pests of tea	To find out the natural enemies in the tea ecosystem as biocontrol agents for the control of pests of tea	BTRI/ TE
41	Bioefficacy of Entomopathogenic fungi against major pests of tea	To evaluate the bio-efficacy of commercial formulation of some entomopathogenic fungi against the major pests of tea	BTRI/ TE
Screening of Pesticides			
42	Screening of pesticides against major pests of tea	To find out a range of alternate and economical pesticides to avoid resistance, resurgence and secondary outbreak of pest	BTRI/ BEF/ TE
43	Determination of judicious use of pesticides for a model tea estate	To determine the judicious use of pesticides for a model tea estate	BTRI/ TE
Pesticide Residue Analysis			
44	Determination of pesticide residue in made tea of different tea agro-types	To determine the pesticide residue in made tea of different tea agro types	BTRI

PLANT PATHOLOGY DIVISION

Disease Management			
45	Evaluation of antifungal activities of some plant	To evaluate and determine the effectiveness of different plant extracts against pathogens of different	BTRI / BEF/ TE

Sl. No.	Research Title	Objective(s)	Location
	extracts against different foliar diseases of Tea	foliar diseases of tea	
46	Screening of new fungicides and herbicides against different diseases and weeds in tea	To standardize new fungicides and herbicides supplied by different companies through PTASC against tea diseases and weeds by conducting trials both in field and laboratory	BTRI / BEF/ TE
47	Changes on quality of made tea due to growth of microbes on graded CTC black tea during storage	To quantify the changes in quality due to growth of microbes on graded CTC black tea during storage period from the day of manufacturing to 360 days	BTRI / BEF/ TE
48	Studies on quality of tea due to different disease infestation in tea plantation	To find out the changes in quality of made tea due to different disease infestation	BTRI/ BEF/ TE
Weed Management			
49	Determination of critical period of weed competition in young tea	<ul style="list-style-type: none"> To assess the effect of weed competition for different durations in tea To determine the critical time for weed control effectively 	BEF
50	Weed management in tea with BecAno 500 SC	To evaluate and determine the effectiveness of BecAno 500SC for economically weed control	BTRI / BEF
51	Allelopathic effect of <i>Mimosa invisa</i> on weeds control in tea	To ascertain the allelopathic effect of <i>Mimosa invisa</i> on weeds control in tea	BTRI
Arbuscular Mycorrhizal Fungi in Tea			
52	Inoculum Production of AM Fungi for Tea Plantation	To produce mass inoculum for tea by using suitable host plants, which are produced a high number of AM propagules	BTRI

BIOCHEMISTRY DIVISION

Tea Quality			
53	Study on the changes of the biochemical components of black tea during storage	<ul style="list-style-type: none"> To observe the effect of storage time & conditions on the biochemical parameters of tea. To develop precautions if the effect is found to be threatening to tea quality 	BTRI

TECHNOLOGY DIVISION

Tea Processing			
54	Effect of heat in the withering trough on the quality of tea	To compare the quality of made tea with and without use of heat in the withering trough	BTRI Factory
55	Study the effect of different physical leaf composition on the tea quality and its grade percentage	<ul style="list-style-type: none"> Find out the quality of made tea according to plucking variation. Find out the grade percentage according to plucking variation 	BTRI Factory
56	Determination of made Tea quality at different temperature of CTC Rollers	Find out the quality of made tea according to temperature variation of CTC roller	BTRI Factory

BANGLADESH FOREST RESEARCH INSTITUTE

BANGLADESH FOREST RESEARCH INSTITUTE

SILVICULTURE RESEARCH DIVISION

Sl No.	Research Title	Objective(s)	Location
Plantation Techniques and Forest Management, Production of quality planting materials, Biodiversity and Conservation			
1	Development of planting technique of Sal (<i>Shorea robusta</i>)	<ul style="list-style-type: none"> To develop suitable planting technique of sal To enrich the degraded sal forest through aided regeneration To monitor the change of biodiversity of sal forest overtime after establishing the plantation 	Chittagong
2	Study on the development of Oil Palm (<i>Elaeis guineensis</i>) cultivation in Bangladesh	<ul style="list-style-type: none"> To determine present status of oil palm plantation in Bangladesh To standardize nursery raising technique and management To standardize plantation (spacing) and management technique of oil palm To study the reproductive biology of oil palm in plantations of Bangladesh To introduce and test the high yielding variety (HYV) of oil palm 	Chittagong
3	Growth performance of different forest tree species in research plots	<ul style="list-style-type: none"> To assess the growth performance of different tree species in four agro ecological regions of the country To determine the silvics of different forest tree species To develop future quality seed sources 	Chittagong
4	Large scale production of quality seedlings of important forest tree species	<ul style="list-style-type: none"> To determine age, height and root-shoot ratio of seedlings for dispatch from nursery to plantation To provide quality seedlings to planters for successful plantation establishment To develop linkages with planters for awareness development about quality seedling 	Chittagong
5	Spacing trial of agar plantation (<i>Aquilaria malaccensis</i>)	<ul style="list-style-type: none"> To determine the optimum spacing for agar plantation To assess biomass production and effect of spacing on agar formation 	Chittagong
6	Conservation of indigenous forest tree species in different agro-ecological regions of Bangladesh	<ul style="list-style-type: none"> Germplasm conservation of indigenous forest tree species in different agro ecological regions of Bangladesh To observe their suitability in particular sites Selection of climate change resilience forest tree species 	Chittagong
7	Suitability of <i>Khaya anthotheca</i> (lambu) plantation in Bangladesh	<ul style="list-style-type: none"> To develop/standardize nursery technique of lambu To develop suitable plantation technique of lambu To find out survival, growth and site suitability of lambu To observe the disease infestation, environmental effect, etc. if any in the plantation 	Chittagong

Sl No.	Research Title	Objective(s)	Location
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SILVICULTURE GENETICS

Bamboo and Non-Timber Economic Crops, Bio-diversity and Conservation, Breeding and Tree Improvement			
8	Mass propagation of bamboos (<i>Dendrocalamus giganteus</i> , <i>D. longispathus</i> , <i>B. balcooa</i> , <i>B. vulgaris</i> , <i>B. bambos</i> , <i>B. cacharensis</i> , <i>B. multiplex</i> , and <i>D. brandisii</i>) through branch cuttings and seedlings proliferation	<ul style="list-style-type: none"> To make available bamboo prop gules for wider distribution and dissemination with developed technology To develop linkage with different stakeholders 	Chittagong
9	Conservation of threatened plant species through domestication	<ul style="list-style-type: none"> To conserve and centralize the gene resources of threatened forest plant species To domesticate the threatened species for conservation To raise demonstration and resource plots for conservation purpose 	Chittagong
10	Development of tissue culture techniques for different bamboo species viz., farua (<i>Bambusa polymorpha</i>), budum (<i>Dendrocalamus giganteus</i>), china bamboo (<i>D. latiflorus</i>), wappi (<i>Thyrsostachys sp.</i>) and pencha (<i>D. hamiltonii</i>)	<ul style="list-style-type: none"> To develop micro-propagation techniques for the species To produce a homogenous plant population To conserve <i>in vitro</i> plants 	Chittagong
11	Development of tissue culture techniques for 1) Timber trees: boilam (<i>Anisoptera scaphula</i>), tamal (<i>Diospyros montana</i>). 2) Medicinal plant: amlaki (<i>Phyllanthus emblica</i>) and 3) Fruit tree: lotkon (<i>Baccaurea sapida</i>)	<ul style="list-style-type: none"> To develop micro-propagation techniques for the species To produce a homogenous plant population To conserve <i>in vitro</i> plants 	Chittagong

SEED ORCHARD

Breeding and Tree improvement, Production of Quality Planting Materials			
12	Selection of plus trees of important agroforestry and forest tree species	<ul style="list-style-type: none"> To establish sources of superior quality seeds from selected clones or progenies To obtain best possible gains from the breeding programmes by testing progenies/clones of the selected plus trees (PTs) To popularize superior quality seeds produced in seed orchards and providing among the planters 	Chittagong

SI No.	Research Title	Objective(s)	Location
13	Establishment and management of seed orchards	<ul style="list-style-type: none"> To establish and manage superior quality seed sources from selected clones or progenies To preserve better genetic stocks under ex situ condition from the natural stands and plantations for future breeding and tree improvement programme To develop suitable techniques for mass production of clonal planting materials To screen best clones/progenies To supply quality seeds to FD, NGOs, DNMSs and planters 	Chittagong
14	Superior stands/ woodlots selection and conversion into Seed Production Area (SPA)	<ul style="list-style-type: none"> To develop an interim source of seeds To ensure supply of better quality seeds 	Chittagong
15	Popularizing quality seeds and planting materials	<ul style="list-style-type: none"> To develop awareness about the importance and benefits of using quality seeds and seedlings To create quality seeds and seedlings 	Chittagong
16	Testing of seeds before distribution and standardization of seed storage behavior	<ul style="list-style-type: none"> To develop a unified system of seed collection, storage, export, import, testing and distribution of forest tree seeds To ensure the supply of quality seeds to the planters To strengthen the BFRI seed testing laboratory 	Chittagong
17	Centralization of high yielding clones of rubber (<i>Hevea brasiliensis</i>) and establishment of orchard	<ul style="list-style-type: none"> To increase the productivity of latex by selecting better yielding rubber plant/ clone Centralization of high yielding clones in hedge orchard 	Chittagong

FOREST BOTANY

Biodiversity and Conservation, Post Harvest Utilization- Physical Processing			
18	Floristic composition and restoration of village common forest of Kapru Para, Bandarban Hill District.	<ul style="list-style-type: none"> To assess the qualitative and quantitative floristic composition of common village forest of Kapru Para To motivate the local people for restoration of the village common forest 	Chittagong
19	Studies on ethno-botanical plants used by the Chakma communities of Rangamati and Khagrachari Hill District	<ul style="list-style-type: none"> To collect the ethno-botanical plants and their information used by the Chakma tribe of Rangamati Hill District To find out conservation strategy and to develop data base for ethno medicinal plants 	Chittagong
20	Anatomical properties of lambu (<i>Khaya anthotheca</i>) tree grown in Bangladesh	<ul style="list-style-type: none"> To determine the detail gross and minute anatomical features of the species grown in Bangladesh To develop a database on anatomical properties of this species for determining better utilization 	Chittagong

Sl No.	Research Title	Objective(s)	Location
FOREST INVENTORY			
Forest Inventory, Growth and Yield			
21	Growth and yield assessment of akashmoni (<i>Acacia auriculiformis</i>) and mahogany (<i>Swietenia macrophylla</i>) through establishment of permanent sample plots (PSPs)	<ul style="list-style-type: none"> To generate information on growth and yield of these species grown in plantations forest of Bangladesh Setting physical rotation of these species 	Chittagong
22	Growth and yield assessment of keora (<i>Sonneratia apetala</i>) and baen (<i>Avicennia officinalis</i> .) in the coastal plantations of Bangladesh	<ul style="list-style-type: none"> To generate information on growth and yield of the keora and baen in the coastal plantations of Bangladesh Setting physical rotation of the species 	Chittagong
FOREST ECONOMICS			
Forest Inventory and Economics			
23	Determination of financial rotation of babla (<i>Acacia nilotica</i>) plantations in Bangladesh	To determine the financial rotation of babla (<i>Acacia nilotica</i>) based on its the existing utilization	Chittagong
24	Impact of the Coastal afforestation of Bangladesh in respect of financial and socioeconomic conditions of local people	<ul style="list-style-type: none"> To find out production system through intercropping of seasonal and/or annual crop in the forest floor of afforestation areas To assess income generation of local people To make financial analysis of afforestation in Coastal zone To estimate the sequestered carbon in the selected years of plantations of Coastal Afforestation 	Chittagong

SOIL SCIENCE DIVISION

Plantation technique and forest management, Soil conservation and watershed management, Soil conservation and watershed management			
25	Effect of integrated soil fertility management in rubber plantation at Dantmara Rubber Estate, Fatikchari, Chittagong	<ul style="list-style-type: none"> To utilize litter fall of rubber trees as organic compost To assess the effect of compost on growth and latex production in new and mature rubber plantation To evaluate the role of different nitrogen fixing crops in new rubber plantation 	Chittagong
26	Assessment of carbon storage trends in the soil-plant system in different forest areas	<ul style="list-style-type: none"> To determine carbon storage of different forest tree species and adjacent soil To assess the correlation between soil and plant system on carbon storage trends 	Chittagong

Sl No.	Research Title	Objective(s)	Location
27	Effect of using preservative treated bamboo materials on soil properties and production of betel leaf in betel leaf cultivation	<ul style="list-style-type: none"> To monitor the changes in soil properties for using preservative treated bamboo materials in betel leaf cultivation To assess the yield and quality of betel leaf in the betel leaf farms 	Chittagong

MINOR FOREST PRODUCTS DIVISION

Bamboo and Non-timber Economic Crops, Biodiversity and Conservation			
28	Nursery, plantation and management techniques of ten rattan species of Bangladesh	<ul style="list-style-type: none"> To develop suitable techniques for production of quality planting materials of ten rattan species, jali (<i>Calamus tenuis</i>), kerak (<i>C. viminalis</i>), golla (<i>Daemonorops jenkinsiana</i>), udum (<i>Calamus longisetus</i>), bhudum (<i>C. latifolius</i>), noli (<i>C. travancoricus</i>), gouri (<i>C. acanthospathus</i>), sundi (<i>C. guruba</i>), sita (<i>C. erectus</i>) and maphuri (<i>C. gracilis</i>) To develop appropriate plantation techniques and site suitability of ten rattan species. To determine the optimum harvesting age and sound management system for maintaining sustainable production of different rattan species To develop a gene pool and conserve rattan species available in Bangladesh for scientific study and demonstrations To distribute quality planting materials of different rattan species to the interested government/non-government organization and private planters 	Chittagong
29	Nursery and plantation techniques of five selected medicinal plants: iswarmul (<i>Aristolochia indica</i>), kurchi (<i>Holarrhena pubescence</i>), gajpipul (<i>Scindapsus officinalis</i>) antamul (<i>Tylophora indica</i>) and chandan (<i>Santalum album</i> .)	<ul style="list-style-type: none"> To develop nursery techniques for production of planting materials To develop plantation and management techniques for sustained yield To popularize cultivation and use of those medicinal plants 	Chittagong
30	Germplasm conservation and management practices of different medicinal plants	<ul style="list-style-type: none"> To authenticate correct identification of medicinal plants To conserve medicinal plants for scientific study and demonstration To develop a gene pool of medicinal plants species for propagation purposes To popularize cultivation and use of medicinal plants To determine management techniques for maximum yield of medicinal plants 	Chittagong
31	Nursery and plantation technique of dhup (<i>Canarium resiniferum</i>)	<ul style="list-style-type: none"> To observe the phonological character of dhup To standardize nursery techniques of dhup To develop plantation techniques of dhup 	Chittagong
32	Studies on ethnomedicinal plants used by the Khasia community of	<ul style="list-style-type: none"> -To collect the ethnomedicinal plants and their information used by the Khasia community of Moulvibazar district 	Chittagong

SI No.	Research Title	Objective(s)	Location
	Moulvibazar district	<ul style="list-style-type: none"> To find out the conservation strategy and to develop database for ethnomedicinal plants 	

MANGROVE SILVICULTURE

Breeding and Tree Improvement, Biodiversity and Conservation, Plantation Technique and Forest Management,			
33	Vegetation dynamics and regeneration pattern in relation to salinity and siltation of the Sundarban	<ul style="list-style-type: none"> To determine the species composition To determine the natural regeneration status of major mangrove species To understand the vegetation dynamics in the Sundarban over time To assess the impact of salinity and siltation on the change of vegetation 	Khulna
34	Centralization and conservation of mangrove vegetation in three salinity zones of the Sundarban	<ul style="list-style-type: none"> To conserve mangrove species in their natural habitat To centralize threatened mangrove species. To observe the flora-fauna interaction over time To demonstrate flora and fauna in natural habitat in the Sundarban 	Khulna
35	Growth performance of mangrove and non-mangrove experimental plantations in the Sundarban	To determine the growth performance of mangrove and non-mangrove experimental plantations in the Sundarban	Khulna
36	Development of a mangrove museum	<ul style="list-style-type: none"> To collect and preserve the representative specimens of flora and fauna from the Sundarban To demonstrate the specimens of flora and fauna to the students, teachers, researchers and visitors 	Khulna
37	Development of nursery and plantation techniques of Khalshi (<i>Aegiceras corniculatum</i>) in the coastal zone of Bangladesh	To develop nursery and plantation techniques of Khalshi	Khulna
38	Selection and development of the top dying tolerant sundri (<i>Heritiera fomes</i>) trees in the Sundarban	To develop a pure line of top dying tolerant sundri trees	Khulna

FOREST PROTECTION

Forest Pests and Diseases			
39	Major pests and diseases of commercially important medicinal plants and their management	<ul style="list-style-type: none"> To identify pests and pathogens of commercially important medicinal plants To determine the nature and extent of damage by each pest and pathogen To know the biology and ecology of key pests and pathogens To develop/adapt suitable management techniques for key pests/pathogens 	Chittagong
40	Major pests and diseases of forest seeds and their manage	<ul style="list-style-type: none"> To identify pests and pathogens of forest seeds in the field and storage condition To determine the nature and extent of damage by each pest and pathogen To develop suitable management techniques for key pests and pathogens 	Chittagong

Sl No.	Research Title	Objective(s)	Location
41	Pests and diseases of bamboos in Bangladesh and its management	<ul style="list-style-type: none"> To survey and assess the present status of pest and disease infestation in bamboos from different areas of the country To collect & identify major pests and pathogens of bamboos To study nature and extent of damage by pest and pathogens To study the biology & ecology of the causal agent(s) To develop suitable management techniques for controlling pest and disease 	Chittagong

PLANTATION TRIAL UNIT DIVISION

Plantation Technique and Forest management, Conservation of Biodiversity			
42	Introduction of bamboo, rattan and golpata in the coastal homesteads of Bangladesh (2 nd Phase)	<ul style="list-style-type: none"> To investigate the possibility for introduction of bamboo rattan and golpata in coastal homesteads of Bangladesh To select site suitability of bamboo, rattan and golpata in the coastal areas To increase the productivity of bamboo, rattan and golpata in the coastal areas 	Barisal
43	Introduction of major bee foraging mangrove plant species in the coastal belts of Bangladesh	<ul style="list-style-type: none"> To develop better silvicultural techniques for plantations for each bee foraging mangrove plant species To provide the sources of honey plants 	Barisal
44	Development of model vegetation to protect soil erosion, salt spray and other climatic changes in the coastal belt of Bangladesh	<ul style="list-style-type: none"> To develop a better model plantation of suitable species against major climatic changes in the coastal belt of Bangladesh To select mangrove species that can tolerate cyclonic and salt hazard To increase the coastal forest product 	Barisal
45	Ecological succession in the man-made coastal forests in relation to age and other related factors	<ul style="list-style-type: none"> To observe the changes of vegetation and natural regeneration in the coastal man-made forests To determine the impact of related climatic factors, which are responsible for the ecological succession in the coastal forests To increase coastal forest resources of the country 	Barisal
46	Monitoring and maintenance of existing trial plantations in the coastal areas of Bangladesh	<ul style="list-style-type: none"> To assess the growth performance and phenology of different mangrove and non-mangrove species at different char lands To develop future seed sources for sustainable coastal forest management 	Barisal
47	Selection of salt tolerant fruit and medicinal tree species in the coastal areas of Bangladesh	<ul style="list-style-type: none"> To select suitable salt tolerant fruit and medicinal tree species in the coastal areas of Bangladesh To observe the growth performance of different fruit and medicinal tree species in different sites To assess the production of fruits in different fruit tree species 	Barisal

WILD LIFE SECTION

Plantation Technique and Forest Management			
48	Biodiversity and conservation	Development and maintenance of wildlife museum	Chittagong

Sl No.	Research Title	Objective(s)	Location
49	Present status of Phayre's leaf monkey (<i>Trachypithecus phayrei</i>), Pig-tailed macaque (<i>Macaca nemestrina</i>) and Capped leaf monkey (<i>Trachypithecus pileatus</i>) in hill forest of Bangladesh	To evaluate the distributions and population of the non human primate species in hill forest of Bangladesh for sustainable conservation	Chittagong
50	Status of Wildlife in Baraiyadhala National Park	<ul style="list-style-type: none"> Establishment of Sampling Transects based on Google earth map of the site and field visit To evaluate the status of wildlife population in Baraiyadhala National Park 	Chittagong

FOREST CHEMISTRY

Post Harvest Utilization –Chemical Processing			
51	Extraction of agar (<i>Aquilariamalaccensis</i> Lam.) oil from artificial inoculated agar trees	<ul style="list-style-type: none"> To determine suitable artificial inoculation method for formation of agar To evaluate the effect of wounding density in formation of oil in agar trees To assess the site and location factors on the yield and quality of agar 	Chittagong
52	Chemical characterization of wood and bamboo species for various end uses	To evaluate chemical properties of different wood and bamboo species	Chittagong
53	Artificial Inoculation of Agarwood (<i>Aquilariamalaccensis</i> Lam.) by Chemical Inducing Agent(s)	<ul style="list-style-type: none"> To explore an efficient and suitable chemical inducing agent(s) for the artificial inoculation of agar tree To develop and optimize the inoculation technique for the best formation of agar resins To investigate the origin or process of agar resin deposition 	Chittagong
54	Phytochemical analysis and antioxidant potential of some indigenous medicinal plants	<ul style="list-style-type: none"> To qualitative estimation of phytochemicals in medicinal plants. To determine the antioxidant potential for assessment their efficacy 	Chittagong

SEASONING AND TIMBER PHYSICS DIVISION

Post Harvesting Utilization-Physical Processing			
55	Studies on solar kiln for efficient seasoning of different thicknesses of wood	To determine the seasoning characteristics of different thicknesses of wood	Chittagong
56	Dissemination of solar kiln technology to the stakeholders for efficient seasoning of wood	To disseminate solar kiln technology to the wood traders, furniture makers and wood based cottage industries	Chittagong
57	Studies on physical and mechanical properties of palmyra palm (<i>Borassus flabellifer</i>) wood	To assess the suitability of palmyra palm wood for making furniture and construction materials	Chittagong

Sl No.	Research Title	Objective(s)	Location
Pulp and Paper			
Post Harvest Utilization –Chemical Processing			
58	Production of high yield pulp from bagasse, wastes of sugar mill of Bangladesh	To improve pulping process for the production of high yield pulp	Chittagong
59	Oxygen delignification of kraft pulp of stem and branches of rubber tree (<i>Hevea brasiliensis</i>)	To investigate the bleaching response of rubber pulp for using as high quality paper	Chittagong
60	Production of nano composite from fibers of <i>Acacia</i> hybrid and simul (<i>Bombaxceiba</i>) tree species of Bangladesh	<ul style="list-style-type: none"> To develop modern technique for extraction of nano cellulose from wood pulp To produce ethanol and environment friendly packaging materials 	Chittagong
61	Suitability of <i>Acacia</i> hybrid for making hardboard	To investigate the suitability of <i>Acacia</i> hybrid for making hardboard	Chittagong
Veneer and Composite Wood Products			
Post Harvesting Utilization-Physical Processing			
62	Design and fabrication of furniture using bamboo composites	<ul style="list-style-type: none"> To assess the potential of bamboo composites for making quality furniture. To assess economic feasibility of commercially valuable furniture made of bamboo composites 	Chittagong
63	Particleboard made of rubber wood (<i>Hevea brasiliensis</i>), gol pata (<i>Nipa fruticans</i>) and raj kori wood (<i>Albizia richardiana</i>)	To determine the suitability of making particleboard in mixed wood species	Chittagong
64	Development of doors and partition using bamboo composite products	<ul style="list-style-type: none"> To assess the potential of bamboo composites for making doors and partition To assess economic feasibility of doors and partition made of bamboo composites To disseminate the information to the end-users 	Chittagong
65	Suitability of manufacturing medium density fiberboard (MDF) from stem and branches of rubber wood (<i>Hevea brasiliensis</i>)	To determines the suitability of medium density fiberboard (MDF) made from stem and branches of rubber wood (<i>Hevea brasiliensis</i>)	Chittagong

WOOD WORKING AND TIMBER ENGINEERING DIVISION

Post Harvesting Utilization-Physical Processing			
66	Potential uses of treated round bamboo for making quality furniture	<ul style="list-style-type: none"> To establish round bamboo as a quality furniture material after preservative treatment To improve the design and quality of bamboo furniture To increase the uses of bamboo for making furniture as an alternative of timber 	Chittagong

Sl No.	Research Title	Objective(s)	Location
67	Improvement of sawing technique of different wood species for maximum yield	<ul style="list-style-type: none"> • To determine the cause of timber loss during sawing • To maximize the yields of timber by applying improved sawing techniques 	Chittagong

WOOD PRESERVATION DIVISION

Post Harvest Utilization –Chemical Processing			
68	Investigation of preservative chemicals leaching from treated materials in water and soil	<ul style="list-style-type: none"> • To investigate the water and soil contamination due to preservative treatment • To disseminate the information to the end-users 	Chittagong
69	Treatability and natural durability of bhudum (<i>Dendrocalamus giganteus</i>) bamboo species	<ul style="list-style-type: none"> • To develop treating schedule for preservative treatment • To determine outdoor service life of bamboo species treated with CCB preservative • To disseminate the information to the end-users 	Chittagong
70	Extension of preservation treatment technology to the end-users.	<ul style="list-style-type: none"> • To motivate people through training, group discussions, personal contacts etc • To provide technical support to the business initiators for development of entrepreneurship in preservative treatment 	Chittagong
71	Assessment of durability of different bamboo species under different duration of water treatment	<ul style="list-style-type: none"> • To assess the durability of bamboo after immersion under water • To determine indoor service life of bamboo products after water treatment 	Chittagong
72	Performance of Neem (<i>Azadirachta indica</i> A.Juss) leaves and Mehagani (<i>Azadirachta indica</i> Sm) seeds extract as an eco-friendly wood preservative	<ul style="list-style-type: none"> • To develop environmental friendly wood preservatives • To investigate the effect of wood preservatives on wood against the wood decay agents 	Chittagong

COTTON DEVELOPMENT BOARD

COTTON DEVELOPMENT BOARD

BREEDING (SELECTION BREEDING)

Sl. No.	Title of the Experiment	Objective(s)	Location
1	Non-Replicated Progeny Row Trial of Upland Cotton	To select the superior genotype for new acquisition trials	Mahigonj, Rangpur
2	Non-Replicated Progeny Row Trial of Upland cotton	To select the superior genotype for new acquisition trials	Jagadishpur and Mahigonj
3	Screening of drought tolerance cotton genotypes	To identify drought tolerance cotton genotypes	Mahigonj, Rangpur
4	Evaluation of Different Cotton Varieties/ Genotypes in Saline Area of Bangladesh	<ul style="list-style-type: none"> To evaluate the adaptability of cotton in saline area To find out the suitable cotton genotype for saline area 	Jagasiahpur, Jessore, Tala, Satkhira
5	Replicated Progeny Row Trial of Upland cotton	To select the superior genotypes for New acquisition trials	Mahigonj, Rangpur
6	Preliminary yield trial of Upland Cotton	To test the yield and quality performance of some newly promising lines through comparing their agronomic and ginning characters with existing standard cultivars.	Sreepur, Sadarpur, Jagasiahpur and Mahigonj
7	Advance yield trial of Upland Cotton	To compare the agronomic, ginning and quality performance of some advanced lines with superior existing cultivars that currently being multiplied for release to farms	Sadarpur, Jagasiahpur and Mahigonj
8	Candidate variety Trial / Zonal Yield Trial of Upland Cotton	To minimize the yield gape between the on-station and on-farm level experiment. Candidate variety trial plays a vital role. So, the taken experiment is justified	Thakurgaon, Rangpur, Bogra, Rajshahi, Mymensingh, Jessore, Jhenaidha, Chuadanga, Khustia, Dhaka, Bandarban, Rangamati and Khagrachari
Hybridization			
9	Heterosis Test and Estimation of General and Specific Combining Ability of the Crossed Genotypes	<ul style="list-style-type: none"> To test the yield and quality performance of the crossed materials through comparing their agronomic and ginning characters with the parents To estimate, heterosis, GCA and SCA. 	Mahigonj, Rangpur
10	Estimate of inbreeding depression of the Crossed Genotypes	To test the yield and quality performance of the crossed materials through comparing their agronomic and ginning characters with the parents	Sreepur
11	Hybridization of Upland Cotton	To assemble and necessary creation of sufficient variability through hybridization and to developed a desire cotton variety	Mahigonj, Rangpur

Sl. No.	Title of the Experiment	Objective(s)	Location
Germplasm Maintenance			
12	Collection, Characterization and Conservation of Cotton Germplasm	<ul style="list-style-type: none"> To increase the genetic resources. To know the qualitative and quantities characters of the collected germplasm for future use 	Mahigonj, Rangpur
13	Rejuvenation and Evaluation of Cotton Germplasm	To multiply the germplasm and to identify some better genotypes	Mahigonj, Rangpur
14	Evaluation and Characterization of Some Materials of Upland Cotton	<ul style="list-style-type: none"> To select the superior genotypes for new acquisition trials To evaluate the yield and quality performance of some lines 	Jagdishpur, Jessore
15	Evaluation of Yield Performance of Plain land Cotton varieties (<i>G. hirsutum</i>) at Hill Slope	To test the yield and quality performances of some genotypes through comparing their agronomic and ginning characteristics with superior existing variety	Balaghata, Bandardan
16	Yield and quality performance of the cultivated upland cotton varieties at hill valleys	To test the yield and quality performances of some genotypes through comparing their agronomic and ginning characteristics with superior existing variety	Bandardan and Khagrachari
Mutation Breeding			
17	Elevation of effective doses of gama radiation for cotton mutant variety	To determine effective dose of Gama ray for cotton mutant variety	Sreepur, Gazipur
AGRONOMY			
18	Effect of plant density with variable K rates on cotton(variety CB-12)	To evaluate the plant density and K rate in respect of yield and quality of cotton	Sreepur, Sadarpur, Jagasiahpur and Balaghata
19	Performance of Some Cotton Genotypes in Summer Season in the Coastal Areas of Bangladesh	To determine the cotton genotypes performances in summer season in the Coastal Areas of Bangladesh	Chuknagar, Saynnargacha under Jessore district
20	Yield assessment of Cotton - Rice inter cropping under Different planting pattern in Hill Areas	To know comparatively better sowing pattern in case of Cotton-Rice inter cropping for increasing production of hilly farmers	CHT Hill Districts
21	Effect of Pre and Post Emergent Herbicides on the Growth and Yield of Cotton	<ul style="list-style-type: none"> To evaluate the weed control efficiency of pre and post emergent herbicide To assess the effect of herbicides on the growth and yield of cotton To evaluate the economic performance of different chemical weed control method 	Sreepur, Gazipur
22	Yield and fibre quality of some newly released cotton variety at different nutrient levels	<ul style="list-style-type: none"> To find out optimum dose of fertilizer of newly released cotton variety To determine the effect of fertilizer on yield and fibre quality of newly released cotton variety 	Sreepur, Gazipur

Sl. No.	Title of the Experiment	Objective(s)	Location
23	Effect of different planting arrangement on seed cotton yield of some newly released cotton variety	<ul style="list-style-type: none"> To find out the optimum plant population of newly released cotton variety To determine the effect of plant spacing on yield and yield attributes of newly released cotton variety 	Sreepur, Gazipur
24	Evaluation of Yield from Cotton – Rice inter cropping under different Pattern of sowing in case of Hill Cotton (<i>G. arborium</i>) varieties	To know the better sowing pattern in case of cotton – rice inter cropping to increase the production of crops of Jumia farmers	Balaghata, Bandarban
25	Evaluation of yield and growth performance of cotton (<i>G. hirsutum</i>) under different plant spacing at hill valleys	To find out the suitable spacing for highest seed cotton yield	Balaghata, Bandarban
26	Evaluation of yield and growth performance of cotton (<i>G. hirsutum</i>) under different plant spacing at hill slope	To find out the suitable spacing for highest seed cotton yield	Balaghata, Bandarban
SOIL SCIENCE DISCIPLINE			
27	Effect of N P K S Fertilizer on Newly Release Cotton Variety CB-13 and CB-14	To determine the appropriate fertilizer dose of newly release cotton varieties	Sreepur, Jagadishpur & Sadarpur
28	Effect of Potassium Application on Yield and fibre Quality of Cotton	To determine the appropriate doses of Potassium fertilizer	Sreepur, Jagadishpur & Sadarpur
29	Optimization of N Rates on Yield and Yield Contributing Characters of Upland Cotton	To determine the optimum dose of N for Upland cotton	Sreepur, Gazipur
30	Optimization of P Rates on Yield and Yield Contributing Characters of Upland Cotton	To determine the optimum dose of P for Upland cotton	Sreepur, Gazipur
31	Performance of Cotton Seed Oil Cake on Yield and Yield Contributing Characters of Upland Cotton	To assess the performance of cotton seed oil Cake on cotton yield and yield attributes	Sreepur, Gazipur
32	Effect of inorganic fertilizers and integrated nutrient management practices on cotton productivity, nutrient uptake and soil fertility	To determine the effect of poultry manure and inorganic fertilizer on cotton yield	Sreepur, Sadarpur, Jagadishpur

Sl. No.	Title of the Experiment	Objective(s)	Location
ENTOMOLOGY			
33	Development of a Integrated Management Package against sucking and chewing pest of cotton	To find out the most effective IPM package for the controlling of major insect pest of cotton	Dinajpur, Sreepur & Jagadishpur
34	Efficacy of some insecticides for the management of sucking and chewing pest of Hill Cotton	To reduce the sucking pests of hill cotton in early stages and also to reduce the chewing pests (Bollworm) infestation from early to boll maturing stages	Balaghata, Bandarban
35	Documentation of Insect pest on upland cotton grown in hilly areas	<ul style="list-style-type: none"> • To set up an experiment to run at different times, to record insect biodiversity on upland cotton • To study the nature of insect pests infesting upland cotton 	Balaghata, Bandarban
36	Bio-efficacy of different botanicals against sucking pest of cotton	To know the effectiveness of botanicals against sucking pest of cotton	Sreepur, Gazipur
PATHOLOGY			
37	Assessment of cotton diseases in AYT and PYT genotypes	<ul style="list-style-type: none"> • To know the potential production risk associated with cotton diseases • To identify cotton disease 	Sreepur, Gazipur

**BANGLADESH SERICULTURE RESEARCH AND TRAINING
INSTITUTE**

BANGLADESH SERICULTURE RESEARCH AND TRAINING INSTITUTE

BREEDING DIVISION

Sl. No.	Research Title	Objective(s)	Location
Mulberry Plant			
Development of High Yielding Mulberry Varieties through Breeding			
1	Collection, conservation and evolution of hybrid materials for higher leaf yield and quality	To enriched germplasm bank	Rajshahi
2	Selection of best varieties from open pollinated hybrid (OPH) seeds	To select best varieties through open pollinated hybrids	Rajshahi
3	Selection of superior genotypes from crosses between high combining parents and superior genotypes	To select superior genotypes through hybridization	Rajshahi
Development of Appropriate Technology of Mulberry Cultivation for young and late age Silkworm			
4	Identification of genotypes suitable for young and late age silkworm	To screen out suitable mulberry varieties both for young and late age silkworm	Rajshahi
5	Development of sustainable cultivation technology both for young and late age silkworm	To screen out suitable mulberry cultivation technology both for young and late age silkworm	Rajshahi
Nutritional assessment of Mulberry Varieties Raised under different Cultivation Practices			
6	Development of high yielding silkworm varieties through breeding	<ul style="list-style-type: none"> • To evolve high yielding multivoltine silkworm breeds suitable for the climatic condition of Bangladesh • To evolve seasonwise hardy bivoltine • To enrich genetic materials for germplasm bank • To replace the existing breeds with this newly developed one 	Rajshahi
7	Development of control measures against pest infestation of silkworm	<ul style="list-style-type: none"> • To find out cost effective and eco- friendly control measures of disease infestation in mulberry • To find out the cost effective control measures for pests infestation in mulberry 	Rajshahi
8	Development of reeling appliances for	<ul style="list-style-type: none"> • To modify the existing reeling appliances like cottage reeling machine, thai reeling machine, 	Rajshahi

Sl. No.	Research Title	Objective(s)	Location
	qualative and quantitive improvement of raw silk production	metallic ghai reeling machine and pedal charka • To develop new reeling device for improving the quality and quantity of raw silk	
9	Study of mulberry and bivoltine silkworm varieties and maintenance of germplasm	• To collect new genetical resources for home and abroad • To enhance genetical material through breeding programme	Rajshahi
10	Collection and maintenance of germplasm for mulberry and silkworm	• To accumulate more genotypes in germplasm bank • To select suitable mulberry and silkworm varieties for hilly condition	Rajshahi
Silkworm Breeding			
Development of High Yielding Silkworm Varieties through Breeding and maintence germplasm bank			
11	Evolution of high yielding multivoltine silkworm breeds suitable for the climatic condition of Bangladesh	• To evolve high yielding multivoltine silkworm breeds suitable for the climatic condition of Bangladesh • To evolve season wise hardy multivoltine. • To enrich genetic materials for germplasm bank	Rajshahi
12	Evolution of bivoltine silkworm breeds with high silk content utilizing existing and imported bivoltine as parents	• To evolve high yielding multivoltine silkworm breeds suitable for the climatic condition of Bangladesh • To evolve season wise hardy bivoltine. • To enrich genetic materials for germplasm bank • To replace the existing breeds with this nearly developed one	Rajshahi
	Maintenace of silkworm germplasm bank	• To collect and maintain of silkworm variety • To add more germplasm in the bank • To use of silkworm race as genetic material for creating new silkworm strains	Rajshahi
Others (Post cocoon Technology) Development of Reeling appliances for Qualitative and Quantitative Improvement of raw Silk Production			
13	Development of improved katghai and cottage basin	To develop improved katghai and cottage basin	Rajshahi
14	Fabrication of improved thai reeling machine	To fabricate improved thai reeling machine	Rajshahi
15	Fabrication of multiend reeling machine with re-reeling	To fabricate multiend reeling machine with re-reeling	Rajshahi

Sl. No.	Research Title	Objective(s)	Location
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Germplasm Maintenance Centre (GMC), Panchagarh

16	Study of Mulberry varieties and maintenance of Germplasm	To accumulate more genotypes in germplasm bank	Sakoa, Panchagarh
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Regional Sericulture Research Centre (RSRC), Rangamati & Panchagarh

Mulberry Breeding (Collection and Maintenance of Germplasm for Mulberry)			
17	Collection of mulberry germplasm from home and abroad and their maintenance.	To accumulate more genotypes in germplasm bank	Chandra-ghona, Rangamati
18	Selection of suitable mulberry varieties for hilly condition	To select suitable mulberry varieties for hilly condition	RSRC, Chandra-ghona, Rangamati
Silkworm Breeding (Collection and Maintenance of Germplasm for silkworm)			
19	Collection of silkworm germplasm from home and abroad and their maintenance	<ul style="list-style-type: none"> • To accumulate more genotypes in germplasm bank • To select suitable silkworm races for hilly condition 	Chandra-ghona, Rangamati.
20	Selection of suitable silkworm races for hilly condition	<ul style="list-style-type: none"> • To accumulate more genotypes in germplasm bank • To select suitable silkworm races for hilly condition 	Chandra-ghona Rangamati
21	Study of bioltine silkworm varieties and maintenance of germplasm	<ul style="list-style-type: none"> • To accumulate more genotypes in germplasm bank • To select suitable mulberry varieties for hilly condition 	Sakoa, Panchagarh
22	Maintenance of silkworm germplasm bank	<ul style="list-style-type: none"> • To collect and maintain of silkworm variety • To use of silkworm variety as genetic material in creating new silkworm strains for further development 	Sakoa, Panchagarh

BANGLADESH FISHERIES RESEARCH INSTITUTE

BANGLADESH FISHERIES RESEARCH INSTITUTE

FRESHWATER STATION, MYMENSINGH

SI No.	Research Title	Objective(s)	Location
Development of feeds with probiotics and optimization of feeding strategies for commercially important fish farming			
1	Optimizing dietary protein to energy ratio (P/E ratio) for <i>Mystuscavasius</i>	To optimize dietary protein to energy ratio (P/E ratio) for <i>Mystuscavasius</i>	Freshwater Station, Mymensingh
2	Evaluation of selected probiotics in the formulated diets for <i>Mystuscavasius</i>	<ul style="list-style-type: none"> To evaluate the effect of selected probiotics on growth, feed and nutrient utilization and digestibility in <i>Mystuscavasius</i> To recommend the potential probiotics as feed additives in the formulated diets 	Freshwater Station, Mymensingh
3	Development and optimization of feed and feeding regimes in <i>Mystuscavasius</i> farming	<ul style="list-style-type: none"> To recommend the potential probiotics as feed additives in the formulated diets To develop and optimize feeds and feeding strategies in the fish farming 	Freshwater Station, Mymensingh
4	Isolation of Shing viruses Preparation of virus inoculums Primary cell culture	To isolate and identify Shing viruses from recent outbreaks	Freshwater Station, Mymensingh
5	Epidemiological investigations Sampling of the diseased Vietnamese Koi and clinical observation Isolation & identification of suspected pathogen (bacteria) Challenge test to verify the pathogenicity of the isolated pathogen (bacteria) Molecular detection of the disease producing isolated bacteria from Vietnamese Koi	To identify the causative agent(s) for Vietnamese Koi diseases	Freshwater Station, Mymensingh
6	Collection of tissue samples (muscle, liver, spleen, kidney and brain) from diseased fish Tissue sectioning and staining with Haematoxylin and Eosin	To observe histological changes in different organs of diseased fish	Freshwater Station, Mymensingh
7	Antibiotic susceptibility testing in-vitro condition Treatment trials in aquariums and experimental mini ponds	To develop control strategies to minimize fish mortality	Freshwater Station, Mymensingh

SI No.	Research Title	Objective(s)	Location
8	Family Selection Program of BFRI-GIFT using family selection protocol (F ₉)	Continuation of stock improvement of BFRI-GIFT strain using family selection protocol	Mymensingh
9	Stock improvement and mass seed production of pure line of <i>A. testudineus</i> (F ₆) through Brood stock replacement techniques	Continuation of stock improvement of Thai Koi using brood stock replacement technique	Freshwater Station, Mymensingh
10	Optimization of stocking density for production of Red Tilapia and Vegetable	To optimize stoking density of Red Tilapia with vegetable in Aquaponic culture system	Freshwater Station, Mymensingh
11	Optimization of stocking density for production of Gulsha(<i>M. cavasius</i>) and Vegetable	To optimize stoking density of Gulsha(<i>M. cavasius</i>) with vegetable in Aquaponic culture system	Freshwater Station, Mymensingh
12	To find out effect of electrical conductivity in hydroponics system	Estimating nutrient level and electrical conductivity in hydroponics system	Freshwater Station, Mymensingh
13	To find out suitable dose of artificial stimulating hormone for <i>Pangasianodongigas</i> breeding and observation their breeding behavior	Development of induced breeding technique for <i>Pangasianodongigas</i>	Freshwater Station, Mymensingh
14	To find out suitable rearing technique for <i>Pangasianodongigas</i>	Development of rearing technique for <i>Pangasianodongigas</i>	Freshwater Station, Mymensingh
15	Determination of residues and accumulation level of aquadugs and chemicals in fish, plankton and benthos	<ul style="list-style-type: none"> To find out the deposition level of residue of aquadugs in fish, plankton and benthos To understand the residual level of aquadugs and chemicals in fish body 	Freshwater Station, Mymensingh
16	Information collection on aquadugs and chemicals	To categorize the listed drugs and chemicals on the basis of legal approval, registration and beneficial effect	Different region of the country
17	Information collection on the routes and means that the drugs/chemicals gain access into the country and in aquaculture practices.	To find out the routes and means that the drugs/chemicals gain access into the country and in aquaculture practices	Different region of the country
18	Standardization of hormone doses for <i>N. notopterus</i>	To optimize the hormone doses for Foli, <i>Notopterusnotopterus</i>	Mymensingh
19	Development of induce breeding technique of ShalBaim, <i>Mastacebelusarmatus</i>	To develop appropriate seed production technique of ShalBaim, <i>Mastacebelusarmatus</i> through artificial propagation	Freshwater Station, Mymensingh

SI No.	Research Title	Objective(s)	Location
20	Optimization of stocking density of mohashol (<i>Tor putitora</i>) for mass seed production	To optimize the suitable stocking density of mohashol (<i>Tor putitora</i>) for mass seed production	Freshwater Station, Mymensingh
21	Optimization of number of tissue slice for maximizing pearl production in different mussel species (<i>Lamellidens marginalis</i> , <i>Lamellidens corrianus</i>) against net bag hanging method	To determine suitable techniques for maximum pearl production in freshwater mussel	Mymensingh
22	Optimization of culture techniques for maximizing pearl production in different mussel species (<i>Lamellidens marginalis</i> , <i>Lamellidens corrianus</i>) against a desirable number of tissue slice	To determine suitable techniques for maximum pearl production in freshwater mussel	Freshwater Station, Mymensingh
23	On-farm trial on three locations	To disseminate the pearl culture technology	Freshwater Station, Mymensingh
24	Optimization of size of image against pearl culture methods	To refine image pearl culture technology	Freshwater Station, Mymensingh
25	Identification of breeding season of Freshwater mussel <i>Lamellidens marginalis</i> and <i>L. corrianus</i> through Gonadal histology	To know the Gonadal histology of Freshwater mussel <i>Lamellidens marginalis</i> and <i>L. corrianus</i>	Freshwater Station, Mymensingh
26	Observation of Breeding behavior of freshwater mussel <i>Lamellidens marginalis</i> and <i>L. corrianus</i>	To know the reproductive behavior of freshwater mussels <i>Lamellidens marginalis</i> and <i>L. corrianus</i>	Freshwater Station, Mymensingh
27	Identification of breeding cycle of Freshwater mussel <i>Lamellidens marginalis</i> and <i>L. corrianus</i> through estimation of Condition Factor (CF)	To know the Condition Factor (CF) of freshwater mussels <i>Lamellidens marginalis</i> and <i>L. corrianus</i>	Freshwater Station, Mymensingh
28	Production of the F ₁ generation of Thai Pangas from base population using rotational group breeding techniques	<ul style="list-style-type: none"> To improve the stock of pure Thai pangas through rotational group breeding techniques To produce quality seed of Thai pangas and distribute to the fish farmers/hatchery owners 	Freshwater Station, Mymensingh

SI No.	Research Title	Objective(s)	Location
29	Comparative growth study of F ₁ generation with existing stocks of Thai Pangas(<i>Pangasianodon hypophthalmus</i>) in farmers ponds.	To compare the growth of improved & existing stocks of Thai pangas	Freshwater Station, Mymensingh
30	Development of carps brood from wild sources of river Halda and Jamuna	<ul style="list-style-type: none"> • To upgrade and produce quality carps and catfishes spawn/fry and disseminate to the farmers, entrepreneurs and hatchery/nursery owners • To develop live gene bank with quality brood stocks through implementation of effective breeding plan 	Freshwater Station, Mymensingh
31	Growth study of Crucian carp (<i>C. carassius</i>) under different stocking density in polyculture system	To evaluate the growth performance of Crucian carp (<i>C. carassius</i>) under poly culture system	Freshwater Station, Mymensingh
32	Effects of stocking densities on survival and growth of <i>M. rosenbergii</i> post larvae in indoor and outdoor system	To produce quality seed and improved nursery techniques of PL of freshwater prawn (<i>M. rosenbergii</i>)	Freshwater Station, Mymensingh
33	Evaluation of growth and production performance of Shing, <i>H. fossilis</i> in net cages at different stocking densities	To evaluate the production performance of high valued fish, Shing, <i>H. fossilis</i> in net cages in the river ecosystem	Freshwater Station, Mymensingh
34	Growth observation of shing produced from sumithion treated and untreated eggs	To monitor the growth and maturity	Southern side of Fisheries Faculty
35	Examination of the effects of drugs on pathogenic microbial flora in commercial fish farms	To investigate the effects of drugs on pathogenic microbial flora in commercial fish farms	Commercial fish farms at Mymensingh and laboratory at BAU
36	Investigation into the influence of drugs on microbial population in fish hatcheries	To investigate the influence of drugs on microbial population in fish hatcheries	Commercial fish farms at Mymensingh and laboratory at BAU
37	Disease treatment trial of fish using antibacterial drugs	To use antibacterial drugs in microbial fish disease treatment	Commercial fish farms at Mymensingh and laboratory at BAU

SI No.	Research Title	Objective(s)	Location
38	Isolation, identification, characterization of bioactive chemical compounds from kalojira seed extract and their use in disease recovery in fish	<ul style="list-style-type: none"> To isolate and identify the chemical compounds from kalojira seed extract To characterize the isolated chemical compound from kalojira seed extract To observe the effect of isolated compound in fish disease recovery 	Laboratory of Agricultural Chemistry and Field Lab. of Aquaculture Department, BAU
39	Preparation of commercially viable herbal medicine with the isolated kalojira compound for fish disease recovery	<ul style="list-style-type: none"> To prepare commercial herbal medicine with the isolated kalojira compounds To introduce economically safe herbal medicinal product for fish farmers 	Laboratory of Agricultural Chemistry, BAU and Farmers Pond.
40	Effects of Selcron and its recovery responses on hemato-biochemical parameters of the experimental fishes	To determine the acute/chronic toxicity of Selcron and its recovery responses on hemato-biochemical parameters of the experimental fishes	Mymensingh
41	Effects of selcron and its recovery responses on histo-architecture of some organs in fishes	To know the effect of this compound on different organ and tissues of fish by histological observation	Freshwater Station, Mymensingh
42	Effects of selcron on genotoxicity of the experimental fish	To know the effect of selcron on genotoxicity	Freshwater Station, Mymensingh
43	Brood rearing techniques of <i>M. vittatus</i> in captive condition	To study brood rearing techniques of <i>M. vittatus</i> in captive condition	Saidpur, Nilphamari
44	Studies of reproductive parameters of <i>M. vittatus</i>	To study reproductive parameters of <i>M. vittatus</i>	Freshwater Station, Mymensingh
45	Reproductive response of <i>M. vittatus</i> to different doses of natural and synthetic hormone in captive condition	To determine the reproductive response of <i>M. vittatus</i> to different doses of natural and synthetic hormone in captive condition	Freshwater Station, Mymensingh
46	Effect of stocking density and feeds on the growth and survival of the nursery rearing of <i>M. vittatus</i> in pond condition	To study the effect of stocking density and feeds on the growth and survival of the nursery rearing of <i>M. vittatus</i> in pond condition	Freshwater Station, Mymensingh
47	The growth and yield performance under monoculture and polyculture system of <i>M. vittatus</i>	To assess the growth and yield performance under mono and polyculture system of <i>M. vittatus</i>	Freshwater Station, Mymensingh
48	Polyculture of shing under different stocking densities in the farmer's ponds (2015-16 and 2016-17)	<ul style="list-style-type: none"> To adopt the polyculture techniques of commercially important short-cycle fish species in the seasonal water bodies To assess the water quality parameters of cultural water bodies 	Saidpur, Nilphamari

SI No.	Research Title	Objective(s)	Location
49	Polyculture of Thai koi under different stocking densities in field level management (2016-17 and 2017-18)	<ul style="list-style-type: none"> To analyze the cost benefit ratio (BCR) of culture technologies To disseminate these polyculture techniques in different aqua-ecological zones in the northern part of the country 	
50	Disseminate the suitable polyculture patterns in different aqua-ecological zones in the northern part of the country (2016-2018)		
51	Determination of suitable hormone and dosages for induced breeding of <i>M. cuchia</i>	To develop breeding technique of <i>M. cuchia</i> through hormone administration.	Santahar, Bogra
52	Development of nursery technique of <i>M. cuchia</i> in different stocking densities in tray	To develop nursery technique of <i>M. cuchia</i>	Santahar, Bogra
53	Development of grow-out culture technique of <i>M. cuchia</i> in different stocking densities in pond and cisterns	To develop grow-out technique of <i>M. cuchia</i>	Santahar, Bogra
54	Enhancement of development of ovary of <i>Pangasianodon hypophthalmus</i> using 'green house' concept	<ul style="list-style-type: none"> To accelerate maturation of broods of Thai pangas, <i>Pangasianodon hypophthalmus</i> To improve quality of broods of Thai pangas, <i>P. hypophthalmus</i> between January to February 	Santahar, Bogra
55	Evaluation of BFRI-GIFT and latest Strains of Nile Tilapia <i>Oreochromis niloticus</i> (L.) under On-Station and On-Farm conditions in Bangladesh	To investigate the growth and production potential of BFRI GIFT and the latest strain of Nile Tilapia in the different farmers' pond in different places of Jessore region	Jessore
56	Culture and Constraints of Commercial Small Fish Species at Farms Level in Jessore Region	<ul style="list-style-type: none"> To know the present status of small fish culture at farmers' levels in Jessore region To understand the growth status and production of different selective small cultivable species at farm level To improve the culture techniques of small fishes 	Jessore
57	Observation of physicochemical water quality parameters of the river Meghna	To study the environmental factors in different season	The Meghna River (Shatnol-Alexander) at Chandpur, Shariatpur, Laxmipur and Barisal District

SI No.	Research Title	Objective(s)	Location
58	Quantitative observation of Phytoplankton and Zooplankton of the river Meghna	To study the environmental factors in different season	
59	Observation of catch composition and catch per unit effort (CPUE) of different fishing gear used in the river Meghna	To study the abundance and distribution of important riverine fishes in different season	
60	Identification of gonadal development, hormone dose & peak breeding season for induce spawning	To optimize the induced breeding technique of <i>P. pangasius</i>	Riverine Station, Chandpur
61	Observation of spawn survival rate and stocking density <i>P.pangasius</i>	To develop nursery rearing technique of <i>P.pangasius</i> depending on successful breeding	Riverine Station, Chandpur
62	Observation of physicochemical water quality parameters of Brood stock ponds	To optimize the induced breeding technique of <i>P. pangasius</i>	Riverine Station, Chandpur
63	Identification of risk factors for disease outbreaks using case-control study	To identify risk factors associated with disease outbreaks in tilapia farming	Mymensingh and Chandpur
64	Diagnosis of disease in tilapia culture (ponds/cages)	To identify the causative agent(s) associated with the occurrence of diseases	Mymensingh, Chandpur and Riverine Station Laboratory
65	Study of climatic factors and their impacts on riverine ecology & fish diversity	To study the effects of climatic factors and their associated events on the riverine ecology and biodiversity of fish	From satnol to lower Meghna
66	Effects of climate induced natural calamities on riverine ecology and fish biodiversity	To study the effects of climatic factors and their associated events on the riverine ecology and biodiversity of fish	Satnol to lower Meghna
67	Investigation of salinity intrusion and its impacts on riverine ecology and fish diversity	To develop a salinity intrusion map for the river Meghna, lower Meghna, Tentulia, and Agunmukha describing the potential impacts on riverine ecology and fish biodiversity	
68	Study the gillnet selectivity of hilsa in the Meghna river estuary	To determine gillnet selectivity of Hilsa in the Meghna river- estuary	Mohanpur, Chandpur, Kaligonj

SI No.	Research Title	Objective(s)	Location
69	Impact assessment of sanctuary implementation	To assess the impacts of sanctuary on the abundance and biodiversity of fishes	Padma river, Shariotpur, Meghna river Shatnol-Char Alexander, Andhermanik river Kalapara, Khepupara
70	Analysis of otolith genetics data of hilsa	Sampling for otolith and genetic analysis	Chandpur, Laxmipur/Ramgoti, Mohipur, Ilisha (Bhola)
71	On-board breeding (larval) trial of hilsa	On-board breeding trial of hilsa and testing of larval rearing	Monpura, Moulavirchar (Hatia)
72	Survivability of juveniles of hilsa and its potential for aquaculture	To determine growth and survival of juveniles in the nursery phase of hilsa in brackish water ponds to evaluate potential for aquaculture	Andhermanik river Kalapara, Khepupara, Patuakhali
73	Present status of limnology and natural breeding ground of lake kaptai	<ul style="list-style-type: none"> To identify the specific spawning locations through collecting eggs/spawn To provides scope for management decisions of lake ecosystem 	Kasalong channel, Langodu and Barkal channel, Jagannathchori
74	Refinement of Creek's Aquaculture Technology of Kaptai Lake	<ul style="list-style-type: none"> To refine culture technology for sustainable fish production in creeks To identify problems regarding fish culture in creeks with their solution Demonstration of this technology 	Manikchori, Naniarchar and Langoduupazila
75	Growth and survival of Hilsa juvenile in brackishwater pond stocked in different densities	To determine the growth and survival rate of Hilsa juvenile in brackishwater pond to evaluate potential for aquaculture	Khepupara, Patuakhali
76	Growth and survival of Hilsa juvenile in cages.	To determine the growth and survival rate of Hilsa juvenile in cage.	Chandpur
77	<ul style="list-style-type: none"> Impact of salinity on the production of berried female of mud crab, <i>Scylla olivacea</i> Impact of green water and different feeding regime on the development of larvae of mud crab, <i>Scylla olivacea</i> 	<ul style="list-style-type: none"> To develop brood of mud crab, <i>Scylla olivacea</i> in captivity To develop larval rearing technique of mud crab, <i>S. olivacea</i> 	On Station

SI No.	Research Title	Objective(s)	Location
78	Feasibility of double cropping with short culture period for increasing production of shrimp (<i>P. monodon</i>) at different stocking densities	<ul style="list-style-type: none"> To study the ecology and production feasibility of different cropping patterns in <i>P. monodon</i> culture system in the coastal ghers To study the impact of introduction of different fin fishes for increasing production from the coastal ghers To maximize production capacity and profitability from the coastal ghers 	On Station
79	Determination of quality and doses of different hormones for breeding of <i>Chelonsubviridis</i> . Evaluation of efficacy different fertilizers on the production of fry of green back mullet, <i>Chelonsubviridis</i> in nursery ponds. Production of green back mullet, <i>Chelonsubviridis</i> in monoculture management at different stocking densities	<ul style="list-style-type: none"> To optimize the seed production technology of <i>C. subviridis</i> To evaluate the efficacy of different hormones for the breeding of <i>C. subviridis</i> To develop sustainable nursery management and culture technology of <i>C. subviridis</i> To evaluate the economic feasibility of production of <i>C. subviridis</i> 	On Station
80	Assessment the qualitative and quantitative production of mud crab in major harvest areas. Assessment the stock status of mud crab through estimating the catch per unit efforts (CPUE)	<ul style="list-style-type: none"> To assess the qualitative and quantitative production of mud crab in major harvest areas To assess the stock status of mud crab through estimating the catch per unit efforts (CPUE) To identify the breeding biology and spawning seasons of the mud crab in Bangladesh environment; and To estimate the genetic diversity (composition) of mud crab species in Bangladesh coastal areas 	Khulna, Bagerhat, Satkhira, Patuakhali, Barguna, Chittagong and Cox's Bazar District
81	Impact of stocking density of Brackish water catfish on growth and production of tiger Shrimp and fresh water giant prawn in poly culture	<ul style="list-style-type: none"> To diversify the cropping pattern of coastal shrimp ghers through introduction of poly culture system To increase productivity of shrimp ghers in the coastal area of Bangladesh 	On Station
82	Investigation into shrimp/prawn diseases and their control strategies	<ul style="list-style-type: none"> To identify the available viral pathogens affecting shrimp (<i>P. monodon</i>) production To identify the available strains of White Spot Syndrome Virus (WSSV) causing shrimp (<i>P. monodon</i>) mortality To investigate the bacterial resistance to antibiotics and optimization of antibacterial dose in PL production of <i>M. rosenbergii</i> in hatchery To identify the impact of Alkalinity and pH on survivability and molting of <i>M. rosenbergii</i> larvae Continuous trail and fine tuning the hatchery protocol modified in the year of 2013-14 Survey of the running hatcheries to overcome the existing problem of PL production 	Bagerhat, Khulna, Satkhira and Cox's bazar

SI No.	Research Title	Objective(s)	Location
83	Impact of Probiotics on Shrimp (<i>P. monodon</i>)/ Prawn (<i>M. rosenbergii</i>) Production (on farm)	<ul style="list-style-type: none"> • To evaluate the impact of probiotics on growth and production of Shrimp (<i>P. monodon</i>)/ Prawn (<i>M. rosenbergii</i>) (on farm) • To evaluate the economic feasibility of production of Shrimp with or without added probiotics • To study the soil and water quality parameters of the experimental ponds • To develop technology on impact of probiotics for Shrimp (<i>P. monodon</i>) /Prawn (<i>M. rosenbergii</i>) production 	Bagerhat
84	Development of Cost Effective Quality Feed Using Locally Available Feed Ingredients for Black Tiger Shrimp (<i>Penaeus monodon</i>)	<ul style="list-style-type: none"> • Formulation of artificial diets for bagda grow-out using locally available ingredients • Determine the efficacy of formulated feed on growth, survival and production of shrimp in earthen ponds/ghers 	BagerhatSadar
85	Bioaccumulation of Hazardous Chemicals in Shrimp Farming System of Bangladesh	<ul style="list-style-type: none"> • To identify available chemicals that may contain banned antibiotics which are used in shrimp/prawn farms • To identify the source of hazardous antibiotics in shrimp/prawn culture system • To assess available pesticides residues in rice-prawn/shrimp farming system 	Khulna, Bagerhat and Jessore
86	Assessment of Production Performance in Relation to Limnological Properties in Low Depth Shrimp Ghers	<ul style="list-style-type: none"> • To survey and categorize the existing shrimp ghers based on water depth using altitude reading of GPS (Global Positioning System) • To determine the limnological parameters of soil and waters in the selected ghers • To assess the production performance of the selected ghers • To generate inter-relationship between low water depths and its production performance • To express the production performance of low depth gher through GIS mapping 	BagerhatSadar Upazilla

BANGLADESH LIVESTOCK RESEARCH INSTITUTE

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SI No.	Research Title	Objective(s)	Location
ANIMAL NUTRITION, FEEDS AND FEEDING			
1	System modeling for food waste to feed (F to F) production	<ul style="list-style-type: none"> • Quantification of VWM and development of livelihood model through recycling of VWM to feed • Study on feeding impacts of VWM-feed in growing bull 	Savar, Dhaka (HQ)
2	Study of quantification and nutritional evaluation of available feeds and nutrient requirement of farm animals	<ul style="list-style-type: none"> • To develop feeds and fodder inventory showing their chemical composition, nutritional values and major noxious substances to support feed formulations • To determine the nutrient requirement of livestock and poultry in Bangladesh • To develop Bangladesh feedipedia website 	Savar, Dhaka
3	Study on fattening of buffaloes and comparison of their production performances and meat quality with cattle	<ul style="list-style-type: none"> • To determine and compare intake, digestibility and growth performances of buffalo and cattle raised on a common plane of nutrition • To determine and compare efficiency of meat production and productivity of buffalo and cattle and their quality at different ages 	Savar, Dhaka
4	Study on nutrient utilization and biometrical ranking of available roughages in Bangladesh	<ul style="list-style-type: none"> • Biometrical ranking of fodder crops used by farmers and available in the country 	Savar, Dhaka
5	Study of livestock manure management and clean air production	<ul style="list-style-type: none"> • To determine impacts of feeding and manure management system on clean air production and farm nutrient balances • To develop cost effective value added solid and liquid manure products and determination of their impacts on crop and livestock farm economy • To develop marketing system of different manure products 	Savar, Dhaka
6	Development of vitamin mineral premix for commercial meat type chicken with available resources	<ul style="list-style-type: none"> • To evaluate the developed VMP using different types of carrier materials through chemical analysis • To validate the developed premix on the growth performance of meat type MCTC chicken • To analyze the cost effectiveness of the developed vitamin mineral premix for poultry 	Savar, Dhaka
7	Development of feeding system and least-cost balanced ration with locally available feed ingredients for different selected regions	<ul style="list-style-type: none"> • To estimate proximate composition of local feeds and fodders and to determine utilization effect on production • To develop a sustainable technique for processing and preserving of surplus fodder for feeding in lean season by applying common processing methods • To develop practical feeding guidelines/systems with least cost prepared balanced ration for dairy buffalos considering nutrient contents of available local feeds and fodders 	Savar, Dhaka

SI No.	Research Title	Objective(s)	Location
8	Developing the fodder production model in coastal and river basin regions of Bangladesh	<ul style="list-style-type: none"> To find out suitable HYV fodder cultivars for better adaptability and biomass yield in the coastal and river basin areas To develop and suggest suitable fodder production model in coastal and river basin areas for supporting smallholder dairy farmers to their livelihood improvement 	Savar, Dhaka
9	Development of effective lamb production system in Bangladesh	<ul style="list-style-type: none"> To evaluate existing conventional lamb production system in Bangladesh To determine the optimum market age for profitable lamb production To develop a cost effective lamb production system under intensive and semi intensive management To increase lamb/mutton production in Bangladesh 	Savar, Dhaka
10	Development of cost effective crop residues based complete feeds (TMR) for Ruminants	<ul style="list-style-type: none"> Collection, processing and nutritional evaluation of selected crop residues. Development of complete feeds based on selected crop residues and determination of shelf life under different storage time Study on the feeding effect of complete feed on production performance in dairy cows. Assess the economics of crop residues based complete feeds for commercial entrepreneur development 	Savar, Dhaka
11	Study on Moringa plant fodder agronomy and its feeding to ruminants	<ul style="list-style-type: none"> To determine the impact of different germplasm of Moringa plants, their density, and cutting heights on fodder biomass production To determine the impacts of fertilizer and irrigation on the year round production of Moringa fodder in Modhupur red tract area To determine the chemical composition, and its voluntary intake by cattle following different feeding system To determine the rumen degradability in sacco of Moringa fodder plant parts, and the host rumen environment (pH, NH₃-N, microbial protein yield) fed with different levels of Moringa fodder To determine digestibility in vivo of Moringa fodder and production performances of cattle To rank economic performances of Moringa fodder considering biomass yield, land use efficiency and animal production performances 	Savar, Dhaka
12	Varietal demonstration of HYV fodder and development of existing feed resources based feeding system.	<ul style="list-style-type: none"> To select the suitable cultivar through varietal demonstrate of HYV fodder germplasm in haor basin To collect the most available local grasses, their nutritional and preservation for better utilization under farmers condition To develop existing feed resources based feeding system in haor areas 	Savar, Dhaka

SI No.	Research Title	Objective(s)	Location
13	Characterization (Taxonomical and molecular) and micro propagation of available Moringaoleiferacultivars through tissue culture in Bangladesh	<ul style="list-style-type: none"> • Identification of Moringa cultivars through taxonomical characterization • Development of a simple and efficient protocol for the mass propagation of Moringa cultivars through tissue culture • Detection of genetic divergence of BLRI available 4 Moringa cultivars through RAPD and ISSR marker 	Savar, Dhaka
14	Study on nutrient requirement and development of feeding management guidelines of BLRI improved native chicken	<ul style="list-style-type: none"> • To investigate the nutrient requirements of BLRI improved native chicken at different stages • To know the performance of BLRI improved native chicken in different seasons 	Savar, Dhaka
ANIMAL GENETICS AND BREEDING			
15	Study of strategic development of beef animals and their qualities	<ul style="list-style-type: none"> • To develop suitable beef breed/animal (s) using selective exotic beef sires and BCB-1 dams • To evaluate production performances of F1 progenies • To develop feeding and management system for beef calves 	Savar, Dhaka
16	Screening and development of different coat color variants' goat stock at BLRI	<ul style="list-style-type: none"> • To collect native goat based on different coat color variants from different locations (2015-16) • To establish goat stock of different coat color variants' at BLRI for their genetic and phenotypic characterization (2015-16) • To develop pure-line goat genotypes based on coat color variants (2016-17) • Molecular characterization of goat based on coat color variants (2017-18) 	Savar, Dhaka
17	Conservation and improvement of Native chicken	<ul style="list-style-type: none"> • To assess the performances of three indigenous chicken genotypes under intensive management • To select parental birds (males and females) and breed them in an assortative design for the production of fifth generation birds • To estimate inbreeding coefficient to improve 3 indigenous chicken genotypes under intensive management 	Savar, Dhaka
18	Conservation and improvement of native duck germplasm	<ul style="list-style-type: none"> • To compare the performance of 2nd generation of two genotypes under intensive management condition • To select parental (duck and drake) birds for the production of 3rd generation • To predict the selection to response for egg production in two duck genotypes 	Savar, Dhaka
19	Conservation and improvement Quail.	<ul style="list-style-type: none"> • To increase the fifth week body weight of BB-white and BB-black color mutations of Japanese quail through selective line breeding • To select parental birds (males and females) and breed them in an assortative design for the production of 5th generation birds • To estimate the heritability of the trait to be improved 	BLRI, Savar, Dhaka

SI No.	Research Title	Objective(s)	Location
20	Maintenance and conservation of pure lines and development layer strains of chicken	<ul style="list-style-type: none"> • Maintenance and conservation of pure layer lines at BLRI. • Production and dissemination of BLRI developed layer strains to the poultry farmers • Study on the problem, prospects and adaptability of BLRI layer strains under farmer's condition • To find out the nutrition requirements of BLRI developed layer strain 	Savar, Dhaka
21	Evaluation of performances of Boer and Jamunapari goat at BLRI	<ul style="list-style-type: none"> • Study on the productive and reproductive performances of Boer and Jamunapari goat • Genetic relationship among different goats in Bangladesh with Boer goat • Study on the adaptability of Boer goat at hot and humid climatic conditions 	Savar, Dhaka
22	Conservation of farm animal genetic resources (FAnGR) at hilly regional Naikhongchari	<ul style="list-style-type: none"> • Study on the phenotypic and genetic traits of hilly goats • Study on the productive and reproductive performances hilly goats at farm and farmers level • Hilly goat development at farm level 	Naikhong-chari, Regional station
23	Improvement of Black Bengal goat through community breeding	<ul style="list-style-type: none"> • To evaluate the productive and reproductive performances of Black Bengal goat at farm and community level • To improve the Black Bengal goat at community level • To improve livelihood of community farmer through rearing Black Bengal goat 	Savar, Dhaka
24	Conservation and improvement of Munshiganj Cattle.	<ul style="list-style-type: none"> • Development of Munshiganj cattle rearing community at their habitat and exchange of quality semen/bull 	Savar, Dhaka
25	Identification of repeat breeding problems and measures in dairy cows at Baghabari milk shed areas	<ul style="list-style-type: none"> • To identify the management and environmental risk factors associated with repeat breeding in dairy cows • To know the effect of repeat breeding for dairy cattle production • To determine the necessary measures to overcome the repeat breeding problems 	Baghabari (RS)
26	Performance evaluation of Murrah X Local F1 crossbred and production of Nili- Ravi x Local F1 crossbred buffaloes in Bangladesh	<ul style="list-style-type: none"> • To evaluate performance of Murrah x Local F1 crossbred buffalo in Bangladesh • Crossbreeding of local buffalo with imported Nilli-Ravi semen 	Savar, Dhaka
27	Evaluation of genetic potentials of BLRI improved indigenous chicken varieties under farmer's condition	<ul style="list-style-type: none"> • Evaluation of performances of BLRI improved indigenous chicken varieties (Common deshi, Hilly and Necked Neck) under farmers' condition • Comparison of the performances between BLRI improved indigenous chicken and existing indigenous chicken at farmers' field 	Savar, Dhaka

SI No.	Research Title	Objective(s)	Location
28	Development of new quality forage through interspecific hybridization between <i>Peninsetum glaucum</i> × <i>Peninsetum purpureum</i> in Bangladesh	<ul style="list-style-type: none"> To envisage and evaluate the identification, selection and suitability of the promising <i>Pennisetum</i> interspecific hybrids with desired and improved agronomic, forage and nutritional attributes To assess the agronomic potentiality regarding to heterotic forage characteristics with suitable stability and wide range adaptability To proceed for further development of promising polyploid varieties with high yielding potential agronomic attributes based upon selection of interspecific hybrid through noble biotechnological tools 	Savar, Dhaka
29	Collection, conservation, multiplication of high yielding fodder and evaluation their production performances under different climatic conditions	<ul style="list-style-type: none"> To conserve and multiplications of high yielding fodder crops for distribution of cuttings/seeds among small-scale and large dairy and fattening farmers To evaluate the production performances of some selected legumes collected from ILRI with perennial fodders To test the adaptability of HYV fodder cultivars under different gradients of soil salinity in Southern district To test the adaptability of HYV fodder cultivars in drought prone Barind areas of Bangladesh 	Dhaka
LIVESTOCK AND POULTRY DISEASE			
30	Immune escape avian influenza virus shedding and genetic evolution with the advent of HPAI H5N1 vaccination in poultry in Bangladesh	<ul style="list-style-type: none"> Isolation and characterization of AIVs shedding from vaccinated commercial chicken farms to get a deep insight into possible intra- and inter-subtype sequence variations Detection of genetic and antigenic properties of these viruses to verify the vigor of the mutational events with the advent of vaccination Evaluation of commercial vaccines (GOB recommended) full or cross-protection level against infection from most prevalent virus strains 	Dhaka
31	Modulation of antiviral activity against Infectious bursal disease virus through activation of Toll-Like Receptor (TLR) signaling pathway	<ul style="list-style-type: none"> Determination of cytokine and chemokines activities of Poly ICLC activated TLR3 in chickens that had not been immunized with IBD vaccine Determination of efficacy of Poly ICLC activated TLR3 and commercial IBDV vaccine in modulation the innate immune response to IBD 	Dhaka
32	Development of Peste des Petits Ruminants (PPR) free zone in selected areas of Bangladesh to meet global control strategy	<ul style="list-style-type: none"> To conduct surveillance and epidemiological studies to determine present status of PPR and PPR like diseases, risk factors for the spread and persistence of the disease To undertake sero-monitoring activities (post vaccination) to determine the level of conferred immunity 	Dhaka

SI No.	Research Title	Objective(s)	Location
		<ul style="list-style-type: none"> To Enhance the knowledge of small ruminant farmers, public and private technical personnel on PPR recognition, prevention and control through awareness campaigns To get an in depth understanding of problems and prospects of implementing such control program 	
33	Development of biologics for the diagnosis of Peste des Petits Ruminants (PPR)	<ul style="list-style-type: none"> Development of Polyclonal and monoclonal antibody based local iELISA and cELISA Kit for the early detection of PPRV antigen and assessing antibodies in field sample and pre and post vaccination sero-monitoring To enhance the technical capacity of the SAARC regional Leading Diagnostic Laboratory for PPR Reduce dependency on imported kits and save foreign currency Supporting the national laboratory capacity to diagnose and analyse samples collected during surveillance, sero-monitoring exercises and routine diagnosis 	Dhaka
34	Prevalence study and Molecular characterization of Duck plague virus in selected areas of Bangladesh	<ul style="list-style-type: none"> Prevalence study of Duck plague virus in selected areas of Bangladesh Isolate and identify Duck plague virus from selected areas of Bangladesh Molecular characterization of Duck plague virus 	Dhaka
35	Study on Prevalance and molecular Diagnosis of Subclinical Mastitis in cows at BLRI regional	<ul style="list-style-type: none"> To investigate the prevalence of Sub-clinical Mastitis of cows in milk shed areas Dissemination of Mastitis control package to the dairy farmers 	Baghabari
36	Efficacy trail of BLRI Developed inactivated trivalent FMD vaccine (O,A,Asia1) in cattle at selected areas of Bangladesh	<ul style="list-style-type: none"> To determine efficacy of BLRI inactivated trivalent FMD vaccine in cattle at selected areas of Bangladesh To establish the control strategy of FMD through vaccination in Bangladesh 	Savar, Dhaka
37	Develop a FMD control strategy- “ FMD free zone in a FMD infected country” with physical and geographical	<ul style="list-style-type: none"> Establish a FMD free zone in the cattle populated pocket ‘Pabna-Sirajgonj’ of Bangladesh with the light of OIE-FAO global strategy “FMD free zone in FMD infected country” 	Savar, Dhaka
38	Development of herbal anthelentic for the control of internal parasites of sheep	<ul style="list-style-type: none"> To determine the efficacy of herbal plants against endoparasites To develop a treatment regimen against such parasites 	Savar, Dhaka
BIOTECHNOLOGY			
39	Production of calves through transfer of in vitro produced cattle embryos at farmers level and BLRI Research Farm	<ul style="list-style-type: none"> Production of calves at farmers level through transfer of IVP embryos Production of Red Chittagong calves through transfer of OPU-IVP derived embryos to recipient at BLRI research farm 	Dhaka

SI No.	Research Title	Objective(s)	Location
40	Production of calves through transfer of in vitro produced cattle embryos at farmers level and BLRI Research Farm	<ul style="list-style-type: none"> • Production of calves at farmers community through transfer of crossbred IVP embryos (HF x Local) • Production of Red Chittagong calves through transfer of OPU-IVP derived embryos to recipient at BLRI research farm 	Dhaka
41	Characterization (Phenotypic and Molecular) of buffalo genetic resources in selected regions of Bangladesh	<ul style="list-style-type: none"> • To know the phenotypic variation and the geographical distribution of different types/breeds of buffaloes in Bangladesh • To make documentation of the buffalo genetic resources available in the different regions • To identify the genetic distance among different types/breeds of buffalo in Bangladesh 	Dhaka
42	Establishment of bovine fibroblast cell line for somatic cell nuclear transfer	<ul style="list-style-type: none"> • Adoption of fibroblast cell line protocol for reproductive cloning 	Dhaka
43	Development of salt tolerant Napier cultivar for coastal area through genetic engineering	<ul style="list-style-type: none"> • Standardization of efficient regeneration protocol of Napier fodder • Isolation, identification and profiling of salinity stress responsible gene/genes in local halophyte grass • Cloning, expression and characterization of salt tolerant gene/genes 	Dhaka
44	Prevalence of emerging and re-emerging foodborne pathogens and drug resistant gene in poultry value chain	<ul style="list-style-type: none"> • Isolation and Identification of emerging and re-emerging foodborne pathogens in poultry products • Determination of antimicrobial drug residue in poultry products and byproducts • Detection of antibiotic resistant gene in poultry value chain 	Dhaka
SICIO- ECONOMIC RESEARCH DIVISION / TRAINING, PLANNING AND TECHNOLOGY TESTING DIVISION (Fodder research and development project)			
45	Value Chain Analysis of Milk and Comparative Advantage of Milk Production in Bangladesh	<ul style="list-style-type: none"> • To estimate profitability of milk production; • To determine value addition at different levels of milk marketing • To measure the comparative advantage of milk production in Bangladesh • To examine the policy implications arising from the findings 	Savar, Dhaka
46	Development of livestock community through intervention of BLRI developed suitable technologies in some selected areas of Sylhet region	<ul style="list-style-type: none"> • To identify the overall existing situation of livestock production in 'selected hilly and haor areas' of Sylhet district • To disseminate the livestock technologies to rural farmers for increasing productivity through training and demonstration in this area • To assess impact of technological interventions on livestock productivity and livelihood changes of rural farm families 	Savar, Dhaka

SI No.	Research Title	Objective(s)	Location
47	Livelihood improvement of rural farmers through suitable livestock and poultry technology dissemination in Selected Hilly Areas of Bangladesh	<ul style="list-style-type: none"> • To develop the integrated component technologies (livestock, poultry and fodder) for improving farm practices • To disseminate the livestock technologies to rural farmers for increasing productivity through training and demonstration • To assess impact of technological interventions on livestock productivity and livelihood changes of rural farm families 	Naikhong-chari,
48	Field application of the technology of preservation of green forage as dol in different location in Bangladesh	<ul style="list-style-type: none"> • Assessment of livestock technologies on milk production and estimate actual production gap among on station and on farm group • Identification of constraints to adoption and determine the causes circumscribing the sustainability of technologies at farm level • To suggest feedback to the scientists for refinement of technologies 	Savar, Dhaka
49	Economic Evaluation of Buffalo Production in selected regions of Bangladesh	<ul style="list-style-type: none"> • To identify the socioeconomic profile of the buffalo keeping farmers • To estimate the income from buffalo and its contribution to farm income; and • To suggest policy implications arising from the findings 	Savar, Dhaka
50	Development of blended yarns and fabric from jute, cotton and native sheep wool	<ul style="list-style-type: none"> • To produce blended yarn and fabrics • To determine the physical properties of blended yarns and fabrics • Compare the blended properties with respective 100% cotton, jute and woolen properties • To increase the diversified use of wool and cotton blended products with small entrepreneur 	Dhaka
51	Community based sheep production in hilly area at Naikhongchari	<ul style="list-style-type: none"> • To alleviate poverty by improving productivity of sheep in community farm level at hilly areas • To improve the socio-economic status of the sheep farmers in community level • To establish sheep rearing system at hilly region 	Dhaka



